

<400> 30601

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ataactaaat gtgtccccag gggctatcaa ctaaacaatt aaaacagcat tgcttatcta 180
tgtagagata gaaaattgct catgaagagt catataggat tacattgctt attaaattat 240
ttatatatta ggcaattaag gggtttaagg gcatttggtt cctccttcct tggctttcca 300
gctgtttag caagggcaaa tttgcttggt gccatatgta ccaggaggaa cccataggca 360
tttagcacia cacttttggc agaaaaacat gcatggcttc ttgtgtgaag ttgcagagca 420
acggtaagta cacttttggtt aacaa 445

<210> 30602

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055c06d1

<400> 30602

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acgaacaaaa gctatataat gaattccac actaccacgc agttcaaaat tattgcatac 180
caataatttc aagaaccctt attaactttc actttcaaag ggattggtac aacaatatca 240
tatgctaata aatataatct taagatgaag aagcaggttt ggaagatggg ttgaaaggaa 300
cctgctcagc gcatgtaagg atttcatggg gccagcctg ttctcgacca acacctagaa 360
ggtaagata atactggtaa tgggaaacga tattgttcat cgagtccaca tcaccttgtc 420
caciaacacc atccccatag agaattttca tt 452

<210> 30603

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055c08d1

<400> 30603

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 atcaaagata ttttataatc gtacaacctg tgacaaagtt tagctaataa gatattaagg 180
 acaatctatg caatcaatgt ttgatctgat tgcgaggat tagcacgact tagacgcttc 240
 ttctgtatc tccatgcaac ctgaatacgg tttgctgcaa gggatctcca gtaaggatgat 300
 acatacctta gtgctccttg aacatgaggg ttccgcaaga atcttgatga aagaattgtc 360
 agttcctcaa ggtctgcagc tcgaagtga aatgcctcca cgtttgttaa gcatcttact 420
 gtctgtttgc tcaacaacct ctgtccttga acccttactt ttttaccatc tgtgcttaca 480
 g 481

<210> 30604
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055c11d1
 <400> 30604

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 atgatgcggc ggcacagggg aatcccatca ccaacgggaa gctggcaaata ctcgaccctt 180
 gaatcaagtg caagagcttt gttgagctcc ataacaaaat cgcgataata cttaacataa 240
 tccatgagag gagcatcggg tggggccacc acggacccat tccatagggg gttatcgtag 300
 ccgatcaatc cccaagctt tacaagctca atcaccctct tgtggtagtt caagtaattg 360
 tccttatcag catccacata gatgaaatcg aaagctccct tattcttttc gtctttaatg 420
 agaacgtcaa gaagaggaag agcgggtcct tctctgaagt catcttgcca gccactccag 480
 ccttttcatc acgggcaacc tcaattcata atattc 516

<210> 30605
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055d02d1

<400> 30605

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 atattttcac caatcacatg aaagagtcct tcaaattgca gagatgtcca ataactcaag 180
 tcacccacca catataacaa tataataaga acaccaataa aatgtgaagg aaactcggat 240
 catttcatga tgaaattgtg cataacttca tctcagggca tggaacttca acttcaaadc 300
 ttagatctta tcaagctttt cagccttgac aactggggtt gcttttagcta tagcatcttg 360
 agcggcagtg cggtaatcaa atgggcaatt atgcttgtct gagtagcgat gtacagcaca 420
 aaaaagggtca ccacatcgac aattaaaccc tgtcaaacca acttgcttgt tgcagctgct 480
 gcaacgtttt ggtccatcct tcggctttgc ctcaacact 519

<210> 30606

<211> 573

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400055d03d1

<400> 30606

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 caagaaattt actagcacia aagtggacia ccagaaatt aagttgaaga aatgggagtc 180
 tgcataacaa tggcagataa aaaagaagtg acctctgcaa gctgaagaag acaagaaagc 240
 acacataaaa ttactttgcc aatccttcac ttaaaaaaaa gatggtagcg caggcccatg 300
 gcaaacaat gccaatataa cataaactat cactagtagg acgactataa gtgcaatcgt 360
 aagcttgaca tttctccacc aaacagtgtc tctgaagcga cgagcttggt tctgaagcg 420
 aaatgtgttt cettgcatat tagcagttnt atcgaccagc aattccaacc gatcacctct 480
 atctaaaact ttgtcaatat tttctatcat gacattccgt acctgagaca tttcaccttt 540
 gagacgattg atcctatcgg cgtaggagtc act 573

<210> 30607

<211> 552
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400055d04d1

 <400> 30607

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 aatggtcttc aactagataa tgaaaaatat aactaaaacc aacaaaaatg actatgaagt 120
 ctttttttta tcaaactttc taatattcta gaatttagca gatgatcacg cagccctaag 180
 actcttttca aaacctctaa cctagtaatt tgaaccatac aatggtgggg tcatgtgata 240
 ataaagggga taggcttcgt aaagaggaat agcgggggcc ttctccttct ctttttttgc 300
 tgggccaaat gaaattagtt cagtgggaca ccactttcgt agctttgaca ctgcactcac 360
 tggatcaatc tcaccaata agactagttt catgtcctta acgtcaacag aaatcgattc 420
 aaccctgaa aggccagatg ctggcttcac agcttttttc ttgattctat cattatttaa 480
 ggccaccttt aatactactt ttcttcattg atgataaaag attgtttgtg agagctaagc 540
 aagaattttt tt 552

<210> 30608
 <211> 465
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400055d05d1

 <400> 30608

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 aaagatacta attataagaa ttgaaagtg aaattataaa gttattaaat gattaatcaa 120
 tttttttcta cctgttcctg tagtaaaaag agttccatct gttcttgaat agcttccttc 180
 aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240
 ggtttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300
 tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttcttccacg 360
 gtaagaggag ctgattggga ttgtttaagc aacttgcgca atcgttgacc ttttgctaatt 420
 tgattttgag tagctttatc gagaatcaga agccaatttg ggcaa 465

<210> 30609
 <211> 266
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055d08d1

<400> 30609

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 cctggaaaga cccagaaggc ccatggggca aacaaggaca ggccgggctc ccctggtgg 120
 aagcctgaag aaaagggagg aaaaaacaag gggccacacc ggaaattggt tttgcgagcc 180
 ctttggaccc aaccggagcc agcgggggtg gaataccggg gggggttacg gtggaataaa 240
 ccgaatactg agccaagggc cccgtg 266

<210> 30610
 <211> 521
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055d12d1

<400> 30610

aaataaatag acttatatat aatgaaaatg cgggtacaac ctcaaaatag attcgagtca 60
 ctcccagaat gaatgttatc tactttttta gttttaagct caaacattga aatgaagaag 120
 agctctccaa tggtaaaacc caaagaaaac atcaaaataa taataatccc tcatgtcatc 180
 tctctacact ttaaaatgga acgaaactcc tctcagaagc ctgagaatgt ggctaccaat 240
 atggcaacaa acacggagat agctgaaatt gggaataatg ctgatgctgt gttcccttga 300
 gctggtgctg gtgctggaga tacctcattt acaggaccat tagtagaagc atctgctgct 360
 tgttggggag atggagaagc ttgtggagag aggccctccag caggagcagc agcaggcgctc 420
 tcagacaatc cacagttggt ggcataagga gcagatactt tgcaggcagc acggaaagtg 480
 gttgccttgg tgacattcaa aacgacgcc aattgagcgc t 521

<210> 30611
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055e02d1

<400> 30611

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aaaaaatacc attaaattaa caagcattaa attaactggt tagatattac atgaagattt   60
tgatcatgat tcatgagagt tatacaaaga gaagaagcaa agatgaagat aattgactag  120
ttataccaac catccctgtc catttgtaca taggggttgt tgatgctgaa ttgtcttctg  180
gcttgggagg aggctttctg tattaaaatg gaaagtaggg taaaataggg tccggggggg  240
gggggctgcc aaaaccacca ctaccggtac cgctaccgtt gttggtggca acaccaccgc  300
cgccgtcgta agggggtgtg gggtaataag ggtaattccc agaagggggg ggatatagta  360
atcccggttg aggtggtgct ggtggaacac tggaaccacc tgaaggagtg gtgggagtaa  420
ccgttccaat ggtggtggg taacacggat ttaggcattg agggttgtcg gtttttgccg  480
gtgtccgaaa caaagg                                     496

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<210> 30612

<211> 363

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e03d1

<400> 30612

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aaaaaaaggg aaaaaaactg gctttaaaaa aaactttaag ggggggcctt tttcttaggg   60
ggggggcccc ctttaaaaaa tttttaaaaa aatggggggc cggccccccc caaaaaaaaa  120
aaaacccag ggggggaaa accccccccct ttttaaaaac ccacagggcg aaaaaaaaaa  180
cttcccttat caccctaatt aaaaaagccc gggcgcccc ttttttttaa aaaaaaacc  240
ccctctttta aaaaaaaaaa gggggctcat ttttaagaa aaggggcggc ccccttgggg  300
gggggacccg gggagccctc tttttttttt ggggaggggg gatccgccca aaaactcccc  360
ccc                                               363

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<210> 30613

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e05d1

<400> 30613

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tagggattga acccctaata ttaagggaag taatgaccat tccacaccat gttggtaaag 120
cctaatagata tctcaatcat tcaacaaaaa taatgaagct taagcacccc ccaaaccag 180
aattccaaat tagttacata gaactttcca agatccaatg agccgacacg aattaactaa 240
acagactaaa agttttcaat tgtttgggtct ctttctgctt caaaaacact ggcaattaaa 300
caagcttttt ggaaatacaa gacactccct tattctctgg ctgcatatac aacagctata 360
tatgtcacag tttcaagtca gctagcacia aagggtccta tatatataat aatcaccccc 420
tcctgtggta accaaaccct gctttcattc atgccctttg tacctattct taactgattc 480
aacctttgac ttaccta 497

<210> 30614

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e09d1

<400> 30614

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gagaccattc attttaacac aattccaaca gaacatttga cgatcaaaat tcaattgaat 120
cgccagatgg gataacaaac aaattgccca atttttaaaa aaaaaaactt ggggtgaatca 180
ggaaaactgt ctatatagct tccaaagctt gcaggacatt agccttcaaa tccttaaaat 240
cttcaactcc aaagctgaag ccaaccaggg tggcataaat tttgtacttg gccctttttg 300
actgaggaag accccagtaa gacaaaatag ccgggtgatc cacaatgctt tcacagccac 360
caaacgaggg cggaatatattt gggattttca aagaatcaat aaattt 406

<210> 30615

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e10d1

<400> 30615

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 aaagcactcc tcataactga gggtccaaac ttgcaaaaaa taaaaaccct tactatttac 120
 atagctgctt gaacaaaatt tgctttgaaa ccattaaatt acctagtgcc atacattgat 180
 cttttgatca actaaaaaga gtgggttcaaa tatatgtata tattaaaaag aaaaaaacgg 240
 tttcactcga ggcatatatt tacatgttcc cattctcctc tattgatgaa tcagaggcag 300
 agtcatctag tgttgaattt gatgtagtct ccaattgact cccactctca ttatctgaag 360
 ttcccactgt cctttcttca cgagggtgtt ttaggcacca agacattata ctagccgtta 420
 gtgcaaggat ctttttttga ttcacctcag tgatgtcttc ccgaagcagg aatatagaac 480
 atacaagctt tcttgcaata ct 502

<210> 30616
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055e11d1
 <400> 30616

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 aattgttcag gccatcctta atgatcaaatt acttcaattg tttccatata ttatattcca 120
 aaatatattg aaattatgca agacaacgaa aacatgaaaa tgcaaaatat atggcaaagt 180
 actataatct attcacaaat taacaatgag tgaccactcc agactcggtt cactttcatt 240
 tgaaggccaa agtaattgaa gtatcttgac tacttgttgc cttctttatt aaaaattctt 300
 tgtaggaatc aagaatggaa cggccaagaa ttttaatcaa gcaagggaag gttcaatttg 360
 tggcaa 366

<210> 30617
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055f02d1
 <400> 30617

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ggagttgaca aatttattcc tgaaaacaaa agagactatt ttctctaact acaaaatcca 120
 tctcatcaa atatcaattg ggtaccctta aattgacgga taaaattcaa gtaggactta 180
 gtcacggaac tcatccatga atttttcatg gaactcagtc aagcgggtga cgatggccgg 240
 aatcttttct tctggaggca atatggtgca cctaaaatgc catgtgccag gaacctgtcc 300
 aaaaccagaa ccaggaacaa caacgactcc tgtggcatta agcaagcgtt tgcaatagaa 360
 gttatcaggt gttgcatttg cagcctctgc agctttgata gccttttcgg acaggcgaat 420
 ttgggggaac aggtacattg ccccttctgc tttgttgcac gttacacct ctaatttggt 480
 gaatgcatct tctagtgtct ttgcacgctt ggcaaggac gccaaaatat tctccttctt 540
 agccatgaat gagtcatagg actcatct 568

<210> 30618
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400055f04d1

<400> 30618
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 actaaagaga cccgcgattc cataaaaagc catcgtggcc ccttgtggaa taaatggaaa 120
 ataaataaag tccggaataa aagaaaaatc actaattttc tcagaaataa agaacaaatc 180
 cataccaaga taactggaaa ttgcaacgaa caataacccc aatgaacctt acaaagttaa 240
 aacggcccaa aataaattgc ttgttcttcg aacctccgcc atagaatata tcagtacatc 300
 gtctgagcga aagattatac tcattactct cctttttttg aatttagtat tataattggg 360
 gaataaaaaa cccagaattt ttactttgtt ttctgtatct aaaaaatctt gtttttttga 420
 acataaagaa ataaagaagc cattgcaatt gccggaaata ctaggcctac tagaggaaca 480
 aaaatggaag gaaagtttat cataaaatgg gtacctgat ttactatttg gaccctatat 540
 atattatttt tataattata tagacgcttt nnnttttttt attttttt 587

<210> 30619
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055f06d1

<400> 30619

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aaaaacaatg tgacaacaat cctggccact ctttcttggg tggttgatt tcataaacat  120
atactctaac taaatttcca aattccagga atggaaaagg aaattaagaa tcaacgttca  180
cttcagactc accatgaaaa tactataaat gaaggtgttg ttgaccttaa gcagcggctg  240
taatgaactg tattgcctct ttgcatatac cagtcattgt ggcttcgggt ccataaacct  300
caatggggat gccaatctcc tctccaagtg ctgcacaa agctagacc ttctgggtgt  360
tgggaccccc tcttctcaca aagatgtgca tccttgctgc tttcaatttc gac      413

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<210> 30620
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055f09d1

<400> 30620

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tcacgtgaat gaagtgatgc gtttctccac tttcttgctg gacagcaaact actgtctaca  120
agaataccaa aatttacata caagaaagag ggactcacgc gtcccccccc ccaccaccc  180
acacagacac tgcacttttt gttttttgac ggaaaattta acacaatcta ttctttaact  240
tgtaaactct gaaaagtaat aaaatcagac tgtaacacaa tcaaggcatt cccttggttg  300
cgtaggagtt gaccagcgcc aaggcattgc tgggtgaactt tttgacgttg ctgaccccat  360
cgcatacacc cgttttcatg ggac      384

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<210> 30621
 <211> 531
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055f10d1

<400> 30621

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caaaacaaag gctgcacaaa gtagccatat cattgtgttg ttgtcacttc cttgtactgg   60

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 accattcctt ccactaaaaa acaatggcca ctttttttca tgatcaaaat tacaatgccc 180
 taatgtgaca actctttatg aagtaatctg aaaagtcaat gtacttggcc cacaatggct 240
 ttagatgggg aaaagctata tctagccatg gctttgccc gccatcgaaa tggatgacac 300
 cagcagtctc agcatcagca aaacttgat tttcctgata tcccaatccc aacatgtgcc 360
 agaaaggatc aatagtgtgg acatgaccat ggaatgctat taatccaggg ggcaaagtcc 420
 ctagctgcca caaactgaag tctgatttta tattctgctc aacccaatga tggctctgttc 480
 agctcatatc ggtcttcctc caagcatcaa ggtcaaaaat gttcatgcca t 531

<210> 30622
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055f12d1
 <400> 30622

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 aggatgcaaa agcttttagg taacaagacc ctattttcta aggctgctct taacagagga 120
 cgctacaaac tagaataaag ctacagaaat gttaacttag gaaccatatc tggcccaatt 180
 attatacttg tcaccctcta aacacagtaa catgatggaa ctatgctgaa actggaatca 240
 cttgtagcta tgagaacaag aactacatgg ctagcttttc tagtaagggtt cttatcaaaa 300
 cccaacgaaa taacaatgaa ataaagagtg atctatgtag cccgcaacaa aaatgcataa 360
 tctttgattt ctaaaacatg aaaccgctca atacttttaa gcagttttct tgtttggtc 420
 aaagacatac ttgatcagtg attccttgaa ggaaagaagc tcatggaact cgtttttcag 480
 tttggatgca tccatctcat tgttgctccg tggagcaatt attaccttgg cttgctcttc 540
 aagattga 548

<210> 30623
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055g02d1

<400> 30623

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 atatggacaa gataaaatat ttttttgtgg ggtaatgtgg ttccctccaa ataggaaaaa 180
 tatggagaaa gaaatctagg gaaatgtttt aacaagcata tcgatactga gagttctgaa 240
 taatgacatg actgagttca tctttgaagc aactgaact ctgtggcaaa gtacatggca 300
 atctatcaat aatatcatag tgccttaatt gagttcataa ttaaatacat gctgatcatc 360
 attataagca aatgacattg accttactag aaagaggtaa agcattcatt ctcgatgaa 420
 tttgagtcgt cgcaagggga gtgattgtgt ctaccttcac aggtgggttat caccatacga 480
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<210> 30624

<211> 367

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055g05d1

<400> 30624

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 cccccacacg aaaaaaaaca gaaaaaaaag aacgacccta aaaagaaaac caaacagaa 120
 agttaaagga agggaggcct tgttacccaa ggaagggggc cccgcgcaaa aaaaaaaaag 180
 gggcccaaaa ccaaacgcc ccaccgacac gggggcacac ccaacagagg gggaaaacat 240
 acgggcgggg ggtgggcccc accattatcc caccctccc cgggaggcca cccccaaggg 300
 gggccaaaaa caacgcccgg aaaacaacaa aggctcctgg gtggggaaga aaatgggggc 360
 agcaaaa 367

<210> 30625

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055g06d1

<400> 30625

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aatatgaagt ttactagaca gacacggcaa aattgcctat cccttttact tgattcaagg 120
gatgggatgt ataacaacct ttccagttgc tcgggttggt tcaaggtaag agaaggcttc 180
agcaagctta tcaaagggga atggaccttt ggggtcaaca attggcttca ccttcccact 240
ttctaagtaa gggtttagtt tcctcagaac ttctccattg gaagtaacta caaatctgaa 300
gccaggtggt gtaacagcac ctgtgagtgc caccacactg ccattcttct tcacagcctt 360
cactggcctg tcacattgcc caatggcatc ataaactaca tcaaattttt cgggcaaattc 420
ttcaagttct cttttgtgag tcaatggcca aatcagctcc caagcttttc agt 473

<210> 30626
<211> 558
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400055g10d1
<400> 30626

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cctcagtaca ataaaaattt cacaagacat gatagtaact actatatctt ggattgctcc 180
agggaggaag tgggtctattg aatatagtta ttacattat tattattctt ggattctcca 240
cggaattaca caatacaaca tctcaccacc aaccctttt gatcaaccct ggattcttca 300
ttgccttcag gaggctgagt tagcttctta ttttggggag acatcatttc tctcttcaat 360
tgaatcaaaa tgtcttccat tgtacgctca cgtttccaat tagcaagcat aggaaacaaa 420
tgtgggtcaa ccaactccagt ttcttgattg acacatgtca tgttaatcct tgtttgaaat 480
ttaacagatg gaggaatgtc tggataatcc ctgctgcaaa acaatttcaa ctggtagata 540
cgccctttat gaacagta 558

<210> 30627
<211> 406
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400055g11d1

<400> 30627
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 aaatgattga catgaactta atcttttaaaa ctaatatattg aaccattact cgacaaactg 120
 aattttcaat cgttgacttt agtttatgat aggaggtgca aaaagtcattg ctatcttacc 180
 acaatttgta aaggaagaag ccccatcttc aaaacccaac caccaattga ccacatacac 240
 cctatttaca tttccatgtc ctaacagggt taaactgtaa aactttcctt cgacaccacc 300
 accgtcatca ccacgttgac tatatacatt acaaacttac agaactccat taacgtaaat 360
 gctctaccca gcattataat cacctgttcc aattaaaata aaccca 406

<210> 30628
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055g12d1

<400> 30628
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 ccctgtctgc gtcaacaatc aactataaaa atatggagac tattcaccgt ttgagaagca 120
 atcatgcaaa aaatgatgca aaaatattgg gatctcagag gttaacagct ctgctccact 180
 gggttcagga gtaaagatac ctttgccatc aaaatcaaag gaatactgtc gaaactgaaa 240
 tgccaaaaat cagttaaaga gcttgatgag aagctatcta cctttcatgt acttgctcaa 300
 agcaaaattt agctacggca atttatgtaa cccgagagag ataaaactct gcagtcttaa 360
 tgcttaaatt ttactttta caggatgaag aagcgaagaa accatgaatc agaagagttc 420
 tttcgcatga atgcacttta atctattctt ccacaatcta ttaagttgtc acaattccca 480
 cttgtttgtg gaaagttcaa gcttgggca 509

<210> 30629
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055h04d1

<400> 30629

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 atcattatcg tcgtcaggaa ggggctgact agcagctgca agaagctcaa cctcgtgctg 180
 gtgggtgggca gctaaatcaa tttgaacttt tggggggggcc aatgcaggag attctacaaa 240
 gggcaagttt gcatcgcttg caagtttcct ggccaagtac aaaaatgggt tttcaaaatt 300
 ggagttgctt ttagcagata tctcatagta ctggaaattc ttcttcctgt ggaaaggaac 360
 ctgctttgcc ttcacttgcc tatttttgac aataaccttg ttaccgcaa gaacaattgg 420
 gatgttttca caaacc 436

<210> 30630
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055h06d1
 <400> 30630

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 cagcatcttg tgccagaaat ttttggattg tggggccgta tgcggtctag cacaataaac 120
 aatttcagat ccatcaattt tattactttg ttttgctttc tcacactcat tcaagaatgt 180
 tccaaatgca tcttcacagt atttcaactgc ctccgaaaca gttaagttct cagttagctt 240
 ggggtatata ctcttattat gatccccatt tagagttgct gccatatata tcaaattctc 300
 ttgaaattca ctcaattgcy tttgttggtc cgcggaagca gcctttcgca gtttgacggg 360
 gtcaggcaat ttcactggac aatcagtagc tggggtgctt aaagataaga gat 413

<210> 30631
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055h09d1
 <400> 30631

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 gtccaaagta taaacaatta aacaattaa acataagcct actaatgtgt tatataagtt 120

ataaaaaggg tacagtgata caagacaaaa atgtcatcct ttgactcta aggctaaaag 180
 tatcttcttt cttggtccca ttggtatacc catggccttg agatcctcat cagtcatatg 240
 attgagagca gtcatatcaa cttcttttagc ctgaaaactt aagagatact tttcgagacc 300
 caatgactgc aaaaaatcat ccagtgaagc gtcagccttt cgggacaact ttttaggagt 360
 tggggttagct gatctgttga tatgtactgc aggagtctca acatgaatac ttttactgct 420
 aggcttaacg gccacttttag gctttggtgg gtcaatagtt ttaggttgt 469

<210> 30632
 <211> 569
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056a03d1

<400> 30632

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 aagagtctcc catatgagtt ggcagtagaa acgaaaaaaa catttgcata atcacaccaa 120
 attaagtga gctacacaat aagctcattg cttcactctc acatcataac ccccaaattt 180
 atttattagg taataacaca ctcaacagta aagataaata acagaacata aaaaccagaa 240
 gtacttatat ctccctcact tcatcttoga tctcatctc actccagcag catttcagaa 300
 tagacctggg agatgtactg ccatcacagc cttgaacaaa tgattggtac acaactgcac 360
 cacctactcc aagctcttca tagctcctct taccacagta gtatcctttg atgtccaagg 420
 gaaatttggt aagtttttcg ccatgcatgt caatgttgca agcaacagaa aactctgctg 480
 gacgaaagca tgctaaaact ttttccacaa gttcaccta agccatttca tcaaagtcac 540
 aaccatcagc ttcaaactcg cgtaactga 569

<210> 30633
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056a04d1

<400> 30633

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ctgaaactcg ctgcgcttaa caaaaatgta atcaggggtt tcccatcata cactatctca 120
 ttaaaacaca gataaataaa agcaatcttg ccaactcgctg atcaagaacc cagttctggg 180
 aacaacagtt gcgagatgat ggtggagact tcaaactttg tccgaaaaac aagctaccta 240
 gaaaagaaga cacaagagta cagaaaagaa accaacattt attgtaacca acatcccctg 300
 atgaaccagc ccgcacgatt cacttcttct tctgggcagc cttggtgacc ttggcttcgg 360
 taggatcctt cttcttaacg ctcttgatga ctcccacagc aacagtttga cgcattgtccc 420
 taacagc 427

<210> 30634
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056a06d1
 <400> 30634

gataaatgaa aacacaaatg attttatatt agatttctga cacaattgac gtgctttata 60
 caaagatatt gccttgatgg aggcattgta aaccaatacc tgtctacttt ttagtaaag 120
 agaaaaatga agactccaaa cccagttttt ttatcctggg gagaatagcc aatacaatga 180
 tgaatcaact gtgccacgtt atatcccaga tcttacataa tcttcacctg aattacagaa 240
 atgcatgatt tcgatcacc aaataaaaact ttctaactg ggagtttggt gtaaattcta 300
 ttattaaccg gatgatgaaa ccaaaacatt atgtctcttt aaacgttact gaaaatgatc 360
 taaactggtt tgcaactg 378

<210> 30635
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056a07d1
 <400> 30635

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 cacacaccac tcaattgaca tatatggaac acatacataa tccatatagc attacttagg 120
 ggtggggcat ttcttacttt tatttaatgc acaaacataa caagggcagg aaggaaaacc 180

acaaaattaa aacgaagatc atatatgctgt taataataac aacaacacat gcaacataaa 240
aaccacatgc agttgtggta ggggcatctt cttcagattg gaaaccctc aatgatggaa 300
gggagagcgt tgatcttgat gatgttgtaa cgcgcgaaac cggttttctt gaacagccac 360
ttccaggtct cttcggtcct ctctttgcc a cggcggttg gagcgagaag catcatgtcg 420
aatgcgatgc caacgtttgt gaagagtctg gtgccttcgg gtcggagaac gtgatccacg 480
attgtgactt ttgct 495

<210> 30636
<211> 575
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056a11d1

<400> 30636

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cagagtcggt tttccacgag acgagaagag acacgcaact cgataagtat cacaaaagat 180
tacagaagaa aaggaacatt ctcttctcaa ctatattcta tttgttgctg ttgctgaggt 240
ggttggtaac caggataccc cggataactg ccatacatgt tgggatcctg tccagcagca 300
ggagcatacc cataattttc ataaccttgt gcagcatacc catagtatcc accaccagaa 360
ccagcaccac cattccactg gtttggtatct gcctgagcct gtttgtttga aggactgcgg 420
cccatgaaa gacgaacatt ttgaccaccc aacagggtcc cattcaacac ccgaagtgcc 480
tcttcggcac agtcctgtc tgcgaattgg acaaaccac atcgcttgcc tgctggaatc 540
ttcacatgca ctaattctcc atactggctg aaac 575

<210> 30637
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056b03d1

<400> 30637

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acaataaagc agtcatttta agttaggcca acatctagca agaaacaatt cagcagctaa 120
 ataaaagtaa cataaaatca tgtctcotta gaaagggat tctttgcagc ctcagcagcc 180
 gttttctttg catcaatctc agacacaatg gcatcaattt ttagcttcag tgagtacagc 240
 caatacctag caagaacaat gctcgcataa caaaaaacag aaaattatgt ctccttagga 300
 ggggctttct tagcagcctc tgcagctgcc ttctccgctt cgatctcagc aacgatggca 360
 tcaatttcgg cttctccag ttgacgcaga ccctgctcct tagtcatcac cggaacttct 420
 atgggtcttc ctcactctc aacaacttca agcaatgcgc gaatagccaa cttgacagtc 480
 tcctggccag aagtgtcctt atagttctt 509

<210> 30640
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b05d1
 <400> 30640

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 atctttcatg atttttagatg caciaactga ccattatgga caaatttaga tttgttcatg 120
 acacaaatct ttcactatac agttaaagc acaccactcg gaatcatgtc attcgtaaca 180
 ctttattcaa atgtatgctg atatagatgc ataccgtata tcctattata aaaagcaaca 240
 ccactcgact atatagtagt taggtgacac attttcctc aaaaacttgg aactgaggaa 300
 cgtgatgctc agaactccct ttctggaaac atgataggag ctacgagaga ccacaagtac 360
 agcagagcag ttgcccagga agtgatgatt cgaaccaca cagaaggcca cccacgtta 420
 accaacttcc cgctctctcc aacagatggt gaccaaccag tcagaagcat tgcagaatac 480
 atgcttgcaa gagagaaaat caagtggaag aaggcctatg aatat 525

<210> 30641
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b06d1
 <400> 30641

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 attcttaatc tgaccctgtg taaagcaaaa aacttgatag cataatatcc aactaaagaa 180
 acaatacatg gcacaacaaa aatagaaaaa aagaagtagg atcaaaagaa gcttgatata 240
 attactctat ctgaattatc actcagcagc agtaacctca atgttattgg tttctgcatt 300
 ggattgtggt agagttccca aatccacgcg agattcttta tcttcctgag tgattgaatg 360
 atcagaactt ccttgatcat tcaagttaga attgctatct tcgccggagt gtgcaaattc 420
 ctctctctttt tgtgactcca ctgtttcgtt ttgagcacca accttatttt caactgtctt 480
 actctcaaca gtggc 495

<210> 30642
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b07a1
 <400> 30642

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 atgggtcaac cgggacaaca tggacaatga ccttctgtaa tgcgttcagt tgcacaccat 180
 aaggtctaac cgcccgattc caatgatgcc aactcttata ctacctaggt cgcaacgcca 240
 ttcttatgga cctgggtcaac ctatgccaca tgttttgatg cccggagttg ctggacgtat 300
 attatctgtt ccatatgatg tgggtgggat gccactgctc aaagcatgaa tttcccagca 360
 aattcctgat gaggctttat caacagctat gacaaatgct tctccagagc agaacaggac 420
 catgctaact gagaaactct acgagcttgt ggaac 455

<210> 30643
 <211> 546
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b08d1
 <400> 30643

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 tcagttacga gacagtctac aatgggtatgt gcaccccttac attcaacaac aatatgcaac 180
 cctttattaa tacattgctt agttgtgtta ttgatcccaa gctgcttaat gagtcagggg 240
 ctttgaaatg tctctaataa aagcatcaag gttcccatat gaggagcccc ctgcggcaat 300
 cgctctgaga cacataacct tgattttctt tgccctgtct ctgatctcct ttccctcttg 360
 gctttgaaga tccataaacc tctaaactag agcttctatc ttttgtgtgg ccacaataac 420
 tgcactgtcc aactgtgatg tctctacct agaccattc ttccactcat ccacaatttg 480
 gctgctattt ggaacttgat ccaagataag agggaatgtc agcattggga cccaaccaa 540
 gagagc 546

<210> 30644
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056b09d1

<400> 30644

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 ataaatgaaa caaattatag atatgataag ggcaaagctc aaaaaactcc cagcacacag 180
 cggtgaggaa tgaatggcct taggcctcct cccacttgag tggcttgatc acttcccatg 240
 tgaagtcagg gtcctctctt ccaaagtgtc catatgcagc agtcttcaaa aacctgttat 300
 ttccaccctt cttgagatca aggttgatgg agatcatacc aggcctgaaa tcaaagttct 360
 cttcacaat gttaaggatc tccttgatcag ggatctttcc agtgccatag gtgtcaacaa 420
 acacagacaa aggctcaggc acaccaatgg cataagacac ttgcacaatg caccttctgg 480
 caagtccact tgccacaatg ctcttagcag cctgtctcac aatgtaagca ccac 534

<210> 30645
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056b10a1

<400> 30645

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gtcttcggggg tttcatcggg cctagggcatg tggataatct ggtacgatta acaacaacgc 180
cgtcacgtaa gtcgttgacg aggtgctgat gagcatgtac gatcggcggg tagtattgct 240
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cccaggctga ggctcggcta gatcgcgagc aatcgacacg cgccacgtgt cggcgacata 480
ctacct 486
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<210> 30646

<211> 374

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056b12d1

<400> 30646

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agagcccttt gggttggcag cccacttag ggtataaagt tccacatccc ccttgcgagg 180
ctcgtttttg aaaattaaga ccgatggaaa tgtcaaagcc cttggacctg gcccaaattgt 240
caacactcat gggcaggggt cccctcaaga ggggtttact acaaaattcc ttgatcccta 300
caagttaacc cttaaaatta atgaggggaa aagtctgata aaatcgccac aaaccaggcc 360
ccaaaaacag gggg 374
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<210> 30647

<211> 408

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056c03d1

<400> 30647
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 tcggaacctt caagaaaccc caaaatgggg ccccggtga tccggtttcc caccaccttc 180
 gttacgtcga cccgtaaacg acgccgtttt gatctgatgg cgaaaaccg agcaacatga 240
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 gcagcatcag cggcagaacc accattgacg ccgcgagcgc cgccagaacc agaacggaac 360
 ctaaaccaaa acaacgtgcc atgtcgatat ccatgttgtg gcccctac 408

<210> 30648
 <211> 535
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056c04d1

<400> 30648
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 aatgcagctg ccatatggat caactccaca tggttgccac tgtgacaaa gctatcccaa 180
 tcgacatcaa cattgctcca ccaaggctaa ccaaactcac tggccggaat taatgggaat 240
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 tgggtggcatt gactacccca gtagaaatgt tgacactggt acctaataca ttcacattca 480
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<210> 30649
 <211> 472
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056c05d1

<400> 30649

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 tgtaatagag ttgaaacaaa cagttacaac ttaaaaagga ctagaatttc actccggaac 120
 tcctgagatt gcagatgatg atgactttga gtagcggtca agcaatgata gtaccttggc 180
 agcttttttc ctaagggtgc catccccata tatattcatg ccagtggagac caattaaacg 240
 tgatctagct gttgttccat agtattctac catttccttt gacacaaaca ccttcttcaa 300
 cagtcctaga gcttctgcct ttagagaatc agttcccag ttcaaaatgt ccattatgga 360
 ccttattgca ttatattcat gcaagacacg agctcccctt tgaggaaaat ctttcaaaac 420
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<210> 30650
 <211> 82
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c06d1
 <400> 30650

tttatttttt ttttttattt tttttttttt ttgtatat ttttttaact ttttaaggaa 60
 aacttgctat ttataaagca aa 82

<210> 30651
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c09d1
 <400> 30651

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 ccaaaaaacc aattacaaaa tggataaacg tgctattttg aggcctaatt caccctcacc 120
 acattgaatg cccctttttt ttcaaaaaaa ttcaccccca gttttatagg aggcataattt 180
 tataataaaa gccttgggaat tggaaaggcc tcataaaaca gcaaaaacca cagggtcccc 240
 cgggggaaag ggtataacag caaaaaaagc aaatcggggg ccaggggggg caagaacaaa 300
 agcaaacggg gtttaccttt cgacaagagg ggcaagaaga acagggggga catcccaaac 360
 tgcaaaaaag ggggaaaaaa ggaaaatttg gaaacccaa 399

<210> 30652
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400056c10a1

<400> 30652

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 ttaatgcgga agagtacata aaactggtga ggaagcatgg gggtggagat ttcacagcct 180
 ggcttagagc ctaataaagg gttgacatgg caaatgacaa aaagaagagg tgatcaggaa 240
 gttcacaaag tgacagagga aaaaccagga tgggtgttctg accctcattt gcctccttgt 300
 gcagcgtttg ttgagattat ggctccagtg ttctcaagag atgcatgngc gctgtgtgtg 360
 gcatatgatt cagaatgact tggtcacggg tgggggtcttg attttgctct taaagatgtg 420
 ttgaggtgag tccattctac acctttgtca agtaaaatcc aatttggtg acccagtgc 480
 ct 482

<210> 30653
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400056c10d1

<400> 30653

cctataagca ctttcattag cagcaataat aattctcttc acttgattta ctcactgttc 60
 agtactgcaa aattctacat tgaaatgatg tttgggtccc agctaggact ctattgtgat 120
 tgcattgcat gtacgtaacg ttacatagga atatataatt ttcttcaagg gaaaattcta 180
 cgcgtaaggg tagtaatgat atctgtgtac aagtcaactt tggccttagt caccctaag 240
 agctgtggaa ttagatgtat cagttcccat ggacttgtaa tacgcgtttt cggcatttgc 300
 caaccgactc tggaacatgg tccactcctt tctacaccgc tccctcacct agcacaaca 360
 acattttaac atcaacaaat ttctttatca aaatacataa catttagact acttccatta 420

taacacacac aacctcttca ttagactttt aatgtgagat aaaaagaagc caaataccat 480
 atcaaacgat cttgagaaaa gtaatcaaac aaattcagct gnaaaatatt gaacatgtaa 540
 aacatagtaa cataccccct 560

<210> 30654
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c11d1
 <400> 30654

gcataaccac attataacct tatagcgaaa tagttgatgg catatgcatg ctttttacia 60
 aaagaatcaa caacatatta acattacatc tgaatgaaac aaggaatata acacaggggtc 120
 tcctggctct caaccttact tcctttttatc ctatgatttt gcatcaaaac tatggcactt 180
 ccttctctct ccttttgatt ttgcatcaaa atgatgagac ttgagcttct ttttccgaat 240
 tggggggggcg ggaccacttc cctctctgaa gggcataccc ataagagcca acaatttgtg 300
 tgcttcttgg tcggttttag ctggtgttgc gatgcagata tccattcccc gaggcttacc 360
 aacaacatca gctctgatct ttgggaagac accctgggtcc ttaatgcaa tgctgtagtt 420
 cccatgccca tcaaagctgt tgggggttcac accttggaaa tcttttgtcc ta 472

<210> 30655
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056d02d1
 <400> 30655

gattgcattg cacctcctta acttgtcctt tttctgtttc ttggtatgta cataaaaaga 60
 actatagact gaaaaacagc accaagtgc tggcaagtgc ctttcatgtt ccattaagaa 120
 aacaaaaaca ctaaagataa agaaaaaagg tacaagaaca caagcgttgc ttctctactt 180
 aaaagaaaga aattgataga aaaaatttct gtaagagtat gtggtggcag cagcagcagc 240
 aactgatcac agaaactgaa agatgggtgta cgtgatgtga gaggataaat aagattatta 300
 gctctcaaca atctttggac cgttgtacat ttttccattt acttctaggt cttcaagttc 360

atccctctct tgtagccatt cataagcatt cttttcctct tctggtatgg ataatccatc 420
 cactgaaaag ttggaaaagg ggaaatcgtg gtagtatgtg cagtgtctgc cttcagcatc 480
 agaatatgga ggaccaagca caattagaac tgcgcatgct gtcactgctg tgaaacagtg 540
 caaggttgcc cccatcttct ggataaagga tgaaggggtt cc 582

<210> 30656
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d05d1

<400> 30656

gagcattaag caaatgaaga tttataataa ctaccaactt ctttctatgt tgctcctagg 60
 catcactaga aaactagtagc attaatgtgg atattagata tccctcctaa aatcagtgat 120
 ttcagaggag ttttaagtctt ctactcttgt tcataaaagt gcacatataa gaggggtattt 180
 tcactattca aatagaaaca aaatatgatc atgattcact tctattcaag gataaatata 240
 cccttagtgc accttacacc taaaacaatt ttccttgcca atgagtgggt taggagttgg 300
 tcattctctca agcaggaacc caagaggaaa cagcaaaaag aattcgccct ttccatcctt 360
 gcaaaaccca cttgccattc tcattaacca caaaatcttt atgatgttcc ttcttcacca 420
 ttttctttac tctattcaca tgctctgggg ccaatggaag ttgcttgaac cctgctctct 480
 ggttcttaac ttgccact 498

<210> 30657
 <211> 320
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d09d1

<400> 30657

attgtatatt taggattggg agttaactaa ttttttgttg ttcgacacca caacacagac 60
 aaaaaaacat ggaaaaagaa aacacagaaa atccaacacg aaccagggaa gaacaaaaaa 120
 aagccccgaa gggggcccca aaagccccaa caacggggcg gggtagaaaa aacgaaccga 180
 cgaaaaagga aggacctaaa ccccgaacg ccggagaagg gaaaccccca atacaaggaa 240

cgcgggcaaac aaaaaaaagg gggaaaaagg ccagaaaaaa aaggggaacc caccggaaaa 300
 gggaaaggga ggacccccgg 320

<210> 30658
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d10d1

<400> 30658

acaaaaaag acaaaagcca aaaatTTTTT aaaaagggtt ttttggcccc aaaacaaaat 60
 catttttcaa tcaaattaaa taaataaccc ccttggtcat cattttttgg ggtccctagg 120
 gatttacata agccagcatc aggaactttt tttatcgac cccttaccat acaataaaaa 180
 aaaatccctt aaaaggaagg aattgcatc ggaagttaat cccccccat gcccgtaaa 240
 ttagaaccac cctttgatca ataaaatttg aaaaaaaaaa aatgggaagc cccaacttga 300
 gcaaacccca agcaaaagaa gatttaagag gatttgggtt acttatagga taagcttagg 360
 gggccattg gaaatcacgg ggggctttcc ttgagcaaac attgaaaaac aagctgagt 420
 aaatcggaag g 431

<210> 30659
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d11d1

<400> 30659

aaagccattc ctgacactag gttggtattg gctttttctt taattattta ttatgtttga 60
 acatgacaaa aaaaaatcta aatgacaaaa catcaatact tttattactg tcaactgagg 120
 cattcagagt gacatgggag caccgaacaa gtggtaacta attgcccact tggataacag 180
 tagagacaaa tcacacacaa cagattaatc atcaacaaaa tacatccgtt ggtgaagt 240
 ctgacagctg aagagaaact gctttccaat ccacagcatg accacactgc ttgtctttt 300
 tagtagccac tggtcacagg agaggacca caccagaggt ttcagttata gacacctttt 360
 ttgcagcaac tgccttcaga ctgtacctct cagatcttga accaaatact tgccccaaca 420

ccgatgccgt gatagtaa at gccattgctg atttagggat caagacagac ttccttagca 480
 ttgctatgaa tggaacagct gcatggact 509

<210> 30660
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d12d1

<400> 30660

gcgaaaaaaaa aaatTTTTTT ttttttaaaa gaccctaaaa caatTTTccc ccaatgggggt 60
 ttccatgggg ttttaagcct ccgggggttcc cccgggggtta aaaaatcacc aaacttccgc 120
 tgctccttgg ggctaaatgc ccccaaggac cgTTggggttt tttggagggg ggggccaac 180
 tttttttgga cgTTgaggcc cttttcgccc aggccaaagg ctcgattaaa attttttcaa 240
 aatggggtttt ttttttgggg gaattctttt aaaggggggg ggaattttct aacctttccc 300
 aaacatgagg cgggtttgga aatttggggg gtttaagatc attttgcct ttccaaaagc 360
 cattaattga actaattggg gggaaaccag gggggggggg gtttttcctt aaggttttgc 420
 ccaagccctt ttt 433

<210> 30661
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e01d1

<400> 30661

ggaaacaact cacactgtcg tttgcctttt ttatatctgt aaatacttaa taatacatta 60
 caattgtcct cgTTaaatga ggtcgacaaa acacccaaaa attaaccaaa tttggagcac 120
 aatgttttgt tcttacacac tatatattgg gccacacaaa atgagatttt aagactatat 180
 cttatgcttc ttcctttcca tcaactccaa ctttcacatc atttgcactc acaagctctt 240
 tttctgcac gtcattaggc tttatgttgt gctgaacttt gtactgatgc ctcatgtcta 300
 atacaagaaa aagtatgaaa ttcagtagtc ctagcactgc gagcaaccaa tagaagtaat 360
 ctaacctgcc cttgttcaga ttgctcctta gccatctttt cttacttgct ttgtccacaa 420

ttgccaccaa taagctactg acaaaataac ccattgatag tgtacatagg aaaagtccag 480
 tgctcataga ttccattctc tctggggcct tcctaaagaa taattctagt tgtccatcat 540
 aagccaatgc tttccc 556

<210> 30662
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e02d1

<400> 30662

aaaggaaaga atttcaattc aatcgtctta caaacagcaa aatttgtagt gacatgctgc 60
 agtcttttgc taaacaaaac aacaaatata gcaatctgat agctgtagat gccaaatttc 120
 aggcccccca actttctcag tatcataatc gtaacaataa ctataatgac gaaaattttg 180
 aaaacggggc agacccatct cacttattat tctactttaa catgtcacca aaggagcgaa 240
 aaacaagtta attctttttg ccaactccaa gcctcagacg gaaatcctct tccatacgag 300
 gaagaccatc acgcaacttg acctttggct cccagcccaa caattccttt gcttttgtga 360
 tgtctggttt tctttgtcgt gggtcatcag gagtgttctc caccatcttg atctccacac 420
 ctggattaat aagctcttta actgtctcag caagttcagt cattgtaaat tcacctgggt 480
 ttccaagggt gatt 494

<210> 30663
 <211> 328
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e03d1

<400> 30663

gaacccaaaa aatttacatt ggtcttcaaa caccgctttt tttattcct ctatacaaac 60
 tccttgattt gactttgtta cacaaattcc ctctatgggg gggattcccc cactttgaac 120
 agttctattt ttcccaacct aataatccta aaaagggtat ggtctttacc cccacattt 180
 acttccaaag attgggaaac ataattcacc agtccaacaa acccattgtg ccttaagcga 240
 acacccctt gggggcccaa gtaaaacttg ttccttacta aaagtttggg cacaaatatt 300

cggtaaaaac aaatccctat tttggggg

328

<210> 30664
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056e04d1

<400> 30664

aatccaaaac aaaaatgaaa cttttgtttc taatttcaag gtcttgccca acatccttga 60
gctagatgga agctgttgaa atattatattt atcaagtcac ttttcacata gaaattcatg 120
gtgaaaatgt tcttttagca actttgatta caccgagaca aatcaatgcc acatagtggg 180
gggaaataaa caaatacaga aggaaagact taacactaca gtacttatta ttagcctgta 240
agagcagagt tcagagcact atggacatca accccaatct gagcttcagc tttctccaaa 300
tcagttgtgg ctgagttcag cttctgggtg aaatcttgaa gacccttctg gactagattc 360
gcatcaattc ggtccaccgg cacagcctta acagctatta tattagcaac agagtttgca 420
tggatgaatg caaagccact gctgacaaaag tacttgggtca 460

<210> 30665
<211> 354
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056e05d1

<400> 30665

agggtacgga ccaaagggct aactttcttt atgttaaatt aaaggttgaa atattccaat 60
aaccttgagg gttttcttca cccgcatgtc tttttttgcc cagtggcatt aaaaccccag 120
atacccaaaa aaaagaacag actttcgccc aaagcccaac ttaactaaca aaaattggta 180
ttttgggcca aatggagggc cctgtcggaa agaaccctgt ttgttcaaag ctttgaagtt 240
ggcaaaccga ggggttttgt cttaacaagg catggggaga ccctcggggg tcgaacattc 300
tcaatgagga aggggttaac cctattggta gtaaaccaaa aaggggaccc cttg 354

<210> 30666
<211> 486

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056e10a1

<400> 30666

aaaaagcaag gacgcaatct atgtccctga cgctgagcac gaggctctcc aattcaaagc 60
 ctgggtacac agtctattgc agcctcgctg ctcacgcata gctgcggcac aacctctacg 120
 ccggcactct ccgtcgctcg tccactttta ccttggccct catcagtatc gcgacgggtc 180
 cgcggtccgt cactcagtct cgcggaatta ctctgttcgg atgtgatatg agagcctgga 240
 ctctcactgg taacggctgt cgcgctcaca aggttatcaa agtgcattgac cctatggaag 300
 gaacggggct cgccgctctt gaggggtcga cgcacagtgt agctgggttat gccacagttg 360
 ctactacagc tgatgacgcc caaagggttg atcgaaacag gcgatagagt taagcatcga 420
 atgctgatag agaacggctc ctacgagcta ctgcagcagc ctgttgattg taatatacgc 480
 cgacac 486

<210> 30667
 <211> 543
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f02d1

<400> 30667

gacgataaca taaacttttg aatagaattt tattacagac aaaatcggtc tccaatgcat 60
 gaattataca attcaaaaca aaattcgacc acttgtgtgt agaccttgcc tcagtgtaaa 120
 taaatggctt acaaaattcg actatgcaat taacattcct gaagctcagt tctcaaatac 180
 acttagcaaa ggaaagttga aaagataagc agaaaacagg aaaaaatttc aattcaatca 240
 tcttacaac agcaaaattt gtagtgaaat gctgcagtct tttgccaaac aaaacaagat 300
 atatagcaat gtgatagctg tagacgccaa atttcaggtc cccaacttt ctcatgatca 360
 taatcataat aataactata atgatgaaa ttctgaaaat gggccagact catctcactt 420
 attatttctc tactttgaca tgttaccaa agagcgaaaa ccaattaatt ctttttgcca 480
 acttcaagcc taagacgaaa atccttttcc atacgaggaa ggaccatttc gcaactggac 540
 ctt 543

<210> 30668
 <211> 443
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f03d1

<400> 30668

atcaccttca acagaattac caatttacta gtctgaggtg ttgtgcaata ctggcattaa 60
 agaagctgcc ttttgttttc ttacatggga ttgaggagtt acctcgttca aagaacaatg 120
 gttggcagta ggtatactac agacgcagcc tagacatttg taattttctg cattttcacg 180
 ctttacgcgg atgactctag caaaatacgt gatttacaat ccacctagta caacaagcta 240
 acattctgac tcatcataac aagcacttga tatacacgga agaaagaaac aagctccctt 300
 attattaaat taaaaagctg acaaattggg gggtcactg atgaattaga tccattcctc 360
 gtgggtgacg catgcgtcca caagtttcca ttcttcgctt cctttttccg ggttatgaac 420
 cgtttttcca accgagcagt tca 443

<210> 30669
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f05d1

<400> 30669

acttcgataa ctttatatta ttttacatgc atgcatagca tagatagcct gctctcaaata 60
 tagtcagcag gaacaaagat agagagatcc aacgatcttt aaatttcaca tttgccataa 120
 atatataaca gaaaagaggg tatgggatat gagttaagtt ttgatctcat tcaactacag 180
 tateccaaac cattactctt aagactttga acttcacttg tactccagga tcatgatgtt 240
 ctcaggagct aatccaacac aagcccttag gatgttatcc agcatagctc gctgctttga 300
 cagtgcatta accactggcg tactcggtgg aaccagaggg gccttgggtca ggctactgaa 360
 gatgggtgcc actggtgtga atgagtggga ctttccctca tttt 404

<210> 30670
 <211> 418

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f07d1
 <400> 30670

atcaacaaaa gaattctaca ttctactatt tctttgtcct ccttacactg gccttcggac 60
 aaaaaagaaa gtaaactgtg actatTTTTT tccgggtggtg taaaatggag tagtagtata 120
 tggaaaacgt taagaaaaga aaagaagaag aagaaaaaaa ctctcctaa gagtaattaa 180
 catgaacact ggccttaatg ccagattgac aaagagggca attgtgtacg gtggaccac 240
 acattgtgca caaacacaga tgcctacatg gcaacaacag cactatcgat tctcttacc 300
 cacactgatt gcacatcctc ttccccaaaa cgccgtgggtt tcgctcgat ccgtcgcaaa 360
 ccttctctc ctctcggtgg ggggtggttgt tggtgttgtt gcttgctcaa ctcgattc 418

<210> 30671
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f08d1
 <400> 30671

caaaaccaat cataaacaat aaaattaaat aaaatagcag gccaccgtt caaacagaaa 60
 tagaaggagg aaaataattg attacaagtt cacaagtcaa tgacatgttt gaaataaacc 120
 atgttagtat ttggaaaacc aacataaaat gcatataggg gacaatgcca atcacaaccc 180
 atgcccttaa cttgacaagc ctctgactct gtcatttaag tttcaggcaa aacatattgt 240
 tacagtttct acataaaggc cttattcata tgaataaaac agaaaaggaa aatgaaatat 300
 caacaaatga gaatgctagt ttcattagcc tctccaattg tctttttgct tccttatctc 360
 tctaatgct ttaacagggg acttgcaacc caccctctcc tggatctcag gtagatcaac 420
 cctcat 426

<210> 30672
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f09d1

<400> 30672

aaaaataata taaaaaggca caacaaaacc atagcacata tcctaatgt ataattgccg 60

taaaaaacca aaaaaaaaaa aaaaactttt tttgaaagta caaaaacaac tcaattgaag 120

gaaacatgag aaaaatgaaa acccacaatg acaaaaccat ccaaccatac ttgcaaacca 180

gaacaaaaac agtactcaac agatacacag tccatcacat ttccatactg catgccaacc 240

attctatata ctgaggttcc aatctagggt accaatcttt taagcatata agcaacctat 300

gagagaacaa atcattcacc agccacatta aattctatgc tgggtggagct gattcatctt 360

atgatcctca ggcttatata tcctgctcac ctttctcatt ggtgttagag gccatttccg 420

gctcttcata cttcgattta tcctcgccaa cagttagttt cttggtgatc tggacctttt 480

ccggctcttt ctgctctgat ttgtcttcac caacagttag tttctcgagg agatcggcag 540

tagccgaagc atctttgttt tcctccccct ctc 573

<210> 30673

<211> 578

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056g01d1

<400> 30673

aggcagcgca aggaacaatt tattaattat atttaccac tgggttctcc atttggttac 60

atgtagttcc aattcagaac accaaaccac tttcaagtat ttgccttaaa acagaatttc 120

cactttcggt aatgaaggaa attcaacatt gaaaccaaatt tattgcagac agcttctctt 180

cttttctcc gtggattcaa acacaattgt aacattatca aacatgaatt ccattagtgt 240

aactcaagca tacaattcat cgatgttaca ttccccaga aaaaccttga tgctgcgcgg 300

tgaaccacag ctgccttcgg caattagtgc tttgccattg gcagccatgt gtgcaataat 360

cttataaatc atttcaatat cttcaggagc atggcaacgg tcagctatct cttcgagggt 420

caatggctca acaggttctt tgcagcttgc ctcatcttagc actgccaaca ctgccttctg 480

aagtgcttag tacttacct gctgctttct taccagctt tcacaccgg gttgatgatt 540

aagccattat gttgaccaag gaggcataaa ttctact 578

<210> 30674
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056g07d1

<400> 30674

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 caagaatata atttgacta agcacctaga gtgcatttaa gtatctaagc acttgctcat 120
 tgaactcaaa gctcactgaa ttccaagctg aaattgaaac taagcacttg catgacatgt 180
 cgtctgcaat tctctttaca acatgctcct aaaacaagaa cattagttct agatgttact 240
 cattttgaaa gcttatgata agcagcatga cacaagact actgagaaag attttaacca 300
 agacatgtga actcttacat tcatggaagc ttaaaatttc agcttcaggg cttgtgaagt 360
 ttgaagccaa aaactctcgg gacatagctc tgtgaagggt tctggggcct tagttgtcca 420
 taagtcatca agaacagatg aggaaatgta gttccaaat aagccccatc aatggtgcct 480
 tgatactt 488

<210> 30675
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056g09d1

<400> 30675

agaaagatgc tatatatatta ttctttgaaa tagcaaatgt caagaacaac ctaggatttc 60
 aaaggagaaa atcctagatt acaacttata agcatcattt tgaaacaaaa tcctaattaa 120
 cagcgatata gctcaatgac aaacaaaaca agtagtcac accacacaca attttcccca 180
 gagattctga gtctcacata catgaatcta ttttgaagca gtgaggcttt catagaagcc 240
 tttaacaaac acataattct tagaaatact aagtctcaca ccacatcatc aaatctattt 300
 tgaacaaaa aggctttcat agagaccctt gaaaaaggag aaaacaggat ctctaggggg 360
 cagactttct ttgacaattg gatgggtcaa aaattcttgg ctccaattgt ggagcttagg 420
 aaatttctca cttgtgaata actccaacc tgcaatttct tgaaccatag ggacccaaaa 480
 tgctatgtag acagcagcaa tatctaccaa cccaatctcc tcttctccaa agaacttctt 540

gtcctttatc tcattct

557

<210> 30676
 <211> 436
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400056g11d1

 <400> 30676

atgggtggtgt gttgtgattt tgttgttcat aataacattg attacagatg catgaagcgc 60
 taaacttata tagttgcttt ttacaagggc accaatgggc ttgagaccaa gaacaacccc 120
 aacccaatg atgtggccaa cagatccaca ggccaagggtg tgagcaaggg tgaagccagc 180
 agggtcacca gtctgcaagc ctgaggccct cacatacagc tttagccctg cagtggcttt 240
 cctgtttgct gatggagcca atccaaacct tccagcaaac agcatcaggg ttgtagaagc 300
 caccataatc agatgagggg aggaaccaag gtagtcacat cgagctcca atgcaccctt 360
 ccccttgca ctcattgggtt gcacaggaac caagaacttc acaggggcaa ctgagaaatg 420
 ggggtctaaga ccaactg 436

<210> 30677
 <211> 541
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400056g12d1

 <400> 30677

gaactgataa aggaaacact ttattaaga cttcaaatca cagcattcaa gataatacaa 60
 tacgcaacac ttttagaaa gccttataac tataaactat aaaagctttg cccagatgaa 120
 attacactgc gggcaaattt ttcattcacc tttagcttag ttatcttcat tgtcgcccaa 180
 attattcttt gtcacatctt tgtattagcc ctggatggca acaccaaggg gagcagcatc 240
 cataggtatt atcttctcaa tttctacacc cttgttggtc tggttttcat aggctgaaat 300
 gtgcactcca agtgctgctc taccagaggg atcaagggtg ttagaccaag cagcatccca 360
 ctcaacagct ttggctgtgc tacatgcaac acttgctcct ccaggaacag tgagcctagc 420
 tgagttctga gggaagaacc tctcaaagat cattctgtag taatatgctt ccttgggttt 480

tggggtgttg tgggggtaaa tgggtaccagc attaagcatt attttttcag tcacatgttt 540
t 541

<210> 30678
<211> 468
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h03d1

<400> 30678

ccacccaaaa catgtaataa tctagattac accaaataat atatagtact ctttcaagta 60
tcatgtccta aaggttgact acaaacatta aaggagagaaa aggggaataaa tttgagaaat 120
aaacaaagta ttgcaacttc ctaagaagaa atcataacca tttcaatatt ctttcttcga 180
ttccactatg accgtagggc ccattgcccc ttttggaaca gaattgcacc aatacaaagg 240
tactttctgg accttaaata aaggaatctt gaccacacgc tgtcaaagcc ttattaaaat 300
gccattttga gcccatatca ctgaagaaat ttcacaagaa tgtgtggatg agattgatct 360
aaaatgccat acgaccagcc agcctgctct caagtatcct cttatctatg gctgcatcaa 420
tggagctcat ctggctacta tcatcatgca cctgatattt tggcaaag 468

<210> 30679
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h05d1

<400> 30679

ctctcttggt tttatggata tctttggagg ttacttttgt ttacctttgc agtatatttcc 60
ttgtgttatg ccgtgttttc tttctgtcta caaaaaaacc cgtgttcttc ttttttgtaa 120
tccttctata tattataaat tatatcaatc aataaaagca agcatgataa agtatagttt 180
acaggtttat cccaaacaaa tgcaagtgcata tatataaaca tctggaattg cagttcagct 240
ctatgactag acctgagaag gagttaggct ccaccaacta aaagaatagc aagaactaat 300
atactgaaaa ctattaaagc atttaagtag gctatgtatg ctacaaaaag ccagaattat 360
ccaaaaatgg aaggtctcat tatgttgtaa cttgcacata cttgcaaaga tactaaatg 420

attatggaaa atgacctgaa taccatattt aatgt

455

<210> 30680
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h07d1

<400> 30680

atagaaactt ctgtgctata catagcacat atatgggata acaatcatca ttcaaaaacc 60
acacatgtcc gacagaagac gaaaaagtag acatcaaaca cagcatattt cagacactct 120
agatgatcat catgtgcttc accatcatca tctacatcac cagactcggg accaacctgc 180
tcataatcct tctcaagagc agcaaggctc tcacgagcct atgagaactc accctctgcc 240
ataccttcac ccacatacca gagcacgaag gcccttttag catacatgag gtcaaactga 300
tgatcaatcc tggagaacac ttcaggcaca ctagtggagt tcgaaatcat gcacacagcc 360
ctctgcacct tggcaaggtc acctccagga acaacagtag gaggctgata gtttatacca 420
cacttgaacc cagtggggca ccaatccaca aactggatgg atctcttggt catgatggtg 480
gccacagcag catttacatg cttgggcacg acaacggccc ggtacattaa acaac 535

<210> 30681
<211> 433
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h08d1

<400> 30681

aatattataa gcagagattc ataattcaga gtaggcgaac tttatacaga agcgaccaat 60
taccaaacat taaaaaaaaa aaaaggaagc aaccatgagc ttaacacacc catcacaagt 120
ccaaaacact tgaacttgct gaaaggcaag acatgaccac tttattctaa ggatgtttgt 180
ttaacacaaa acaccagagg gcgcgaaaac catcacagac ataatacata agtttttagc 240
tacacattaa taggttatca ttattcctaa ttaagggcta tctctgcttg aagcttgctc 300
tcccaacacc taacttgcaa gtgcaggggt tgcaggagca gtttggtcca catttgagc 360
catcgttctc agggggcaca cccatttcag caccctcaaa ttgagcctta acaggtgcc 420

ctcccatgac caa

433

<210> 30682
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056h10d1

<400> 30682

aaaaaaaaag aggatttttt ttaaaaaata aagcaaataa tattggaata tcctgcacaa 60
 agaaagatca taaagatgaa caaatgaaac atcatctggg gttttttatt tagcactata 120
 ttattgacaa agaatactaa aacgggactac caaggggttat caatcaatgt gcattgtgaa 180
 agggcagcga atatttgaaa gcctgcccac tccttgtctt tgggttgtaa atgtcacaca 240
 catgggtgag ttttccttta agctgaggta atcccactct ttcggattaa ttgggttaat 300
 aaatagaaaa ttgactgaaa atcaaaatca taagcaagaa tttcttgctg actccaaaac 360
 caaaatctaa agatgatcaa taattgcctt tgtgaattca gttgtctttg aactgccacc 420
 gaggtcagct gttcgggtact tcccttctgc aatttgtgtc aggatggctt tttgaatctg 480
 ttctgctttg tcatggagggt tcaaattggcg caacattgta acaccactta gcagtaaagc 540
 agttgga 547

<210> 30683
 <211> 432
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056h12d1

<400> 30683

aaccccccaa aaaaaaaggg aattattgaa aaactggaaa ttggggccaga tacatgaaaa 60
 cttaccccc cttgttcaca aattgggttaa ttcaccattt gaaaaggaac tttctcatat 120
 acctggtttt ctatcttaat actccacagg agtgggtccaa gtcccttgca cactagggcg 180
 tttgggtaca tgttttggcc taaatttcac taccttctt cccaatgcat tttttagcct 240
 ggttgcatgc aaaagtatgt cttctggatc catattcttc acagataca ctcgctgatt 300
 cttggtcttg taataaccct tcagatgggg atgctgacca cggatgagtt cagtgccttc 360

ctcttatgga ggatttttct ccttaaagtc tggcaaatga aactccataa atgcccttat 420
acctctgcta ct 432

<210> 30684
<211> 369
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a01d1

<400> 30684

attggggcac ccttctatcc aaaaaaagaa ccgaaggggg cattgatatc ccctcccaa 60
atggggggca cgaataagat aaaccatgct aaaattttta aaacctacat ggaatgcctc 120
tagggaactt tggcaaacag tacaaaagtg tttaacttgg catggcgaga accctgttat 180
ttccgttatt ggccaccaat taacgggtgg attttttaca tatttcttgg caccaactat 240
acaaattaag gtgttgcttg aaaataagcg aaatttttgc tgcttttatt agggaaacct 300
cgtgatgaac cggttccccg gctttaaagg ggctttttga atgggctaag tccccaccga 360
atgttttaa 369

<210> 30685
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a05d1

<400> 30685

aacttggaag agggttcatt ccaaaacagt tgaaggaatg aaacattatt tatgttcgta 60
acataaaaca agtacccttg gtgtatgttt ttcataacat gatcaaagtg ggcattacag 120
tgcatgaata ccaaaaatag cttccttggt gaagtctcta gaagctgtcc tgaaaccctg 180
atttttaagc ttggcataag tctcatgaaa agcacattca tagaaatcct gcccttgcaa 240
cttgagggtc ttggaagaga tgccagatga attaggtgac acgaacatat cataatttga 300
cccgccattg ttgtggtgat taatccgcca ttcaagttgt acttttggca tgctagttag 360
cttctgttgc tcagaagtca tgtgagactc atcattgaat aaaagaagct tctcttgatc 420
tgatgtaaga ttaacaatgg tgatatcatg gatactaggc ctccttttat tggctttccc 480

tccagaaagc ttttgcctta tataatactt ttgagcatg

519

<210> 30686
<211> 549
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a06d1

<400> 30686

acatacacgg gaacacacat aacatatttc ataacaagtc ttccttccca agcatgtata 60
aaatcaacaa gggagcggag tatgaaaaaa gattacaaac agagaagtgc tagtaacaaa 120
ttttctagca ctgtctttct catgccctct tttatccgtt aaaattcatg tgattcttac 180
tcatttataa ataggaccta tcaaataaaa atgaaactca tataatctaat aggatacaca 240
tgaatttaac ctaacaaaaa aagtaataaa aaattgtact actagcattt ctctaacaaa 300
tattaaactt aagagcccaa aagagagata agagaggcag agtatatgca cacaacaatt 360
caacacaata ttcaaaccgt agtgatactc tccagtctcc attgattccc ttgataactg 420
gaagatgtaa ctgatataag ttttcctatg cttgctccca ctttttaagt ttgagactct 480
tcataaagct gtgcatagaa tttccttggt ctgtgagcaa cgatcaagct caaagatgct 540
gcacataag 549

<210> 30687
<211> 492
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a08d1

<400> 30687

gtatgttatt aaggttttat agtatatttc atattatagg tattctatac attgtttctt 60
ttgaggagca catgcagcaa ttcagtctta ctacatgatt gtctttattt agaaaacaaa 120
ggttttaccaa ttaaacaacac ttatcagcta ggctttggac cttagacaaa ctgattaagg 180
tactcattca cagtgatgta tttcacatca ggatatagag ctgaagcttc cactccaaaa 240
gaagactcaa tttcaaagtt agtatgatcc ccctttacat aagaagagtg gttaattgac 300
aggatcacat tcacgggtgg tgcggactct tcaatttgct ttaggagggg ctcttctgga 360

acataaattc tttcaagagt tttaccaatt ttttcctccc agagagtaac aagcctatTT 420
 aacgacaagg tattatctgg tggaataatg tatagaatTT tgttcagggT tcatggatca 480
 ttcacaggat tg 492

<210> 30688
 <211> 540
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057a11d1
 <400> 30688

aacttggaag agggttcatt ccaaaacagt tgaaggaatg aaacattatt tatgttcgta 60
 acataaaaca agtacccttg gtgtatgTTt ttcataacat gatcaaagtg ggcattacag 120
 tgcatagaata ccaaaaatag cttccttgTTt gaagtctcta gaagctgtcc tgaaacccgt 180
 atTTTTaagc ttggcataag tctcatgaaa agcacattca tagaaatcct gcccttgcaa 240
 cttgagggTc ttggaagaga tgccagatga attaggtgac acgaacatat cataatttga 300
 cccgccattg ttgtggtgat taatccgcca ttcaagttgt actTTTtgga tgctagttag 360
 cttctgttgc tcagaagtca tgtgagactc atcattgaat aaaagaggct tttcttgatc 420
 tgatgtaaga ataacaatgg tgatatcatg gattctaggc cctctTTTat tggctTTTcg 480
 tcagaaagct tttgcctata tatactTTTg agcatgactt gccacttggg tgggagTTTt 540

<210> 30689
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057a12d1
 <400> 30689

gaattacaat tttaaatTTt gTTTtccatt ttaattatct atggaatcaa aatcccaagg 60
 ggattacaac aaggtacttc caagttccaa aaataacact tgcccagTTt gcccatgtaa 120
 gcaaggaaaa ccaccactc ctattatcca aaatgtcgcc acggtaaaaa ctaaaaaaaa 180
 aaaaaaaaga aagataagaa aaaggtacta gaaaaagaga gagagagaga gaggtatgta 240
 aacatgTTTt ttgacatgTTt tggTTTggat ttcaaatcta caacgccacc acggtgTTTt 300

aacccttggt ggcggtagcc acgacttgag acccagacgg tggaggagcc acaacttttt 360
 tcttcgacgc catgacaaac ttctcctttc tctcgtcctg gtttatctgc tgttggcgac 420
 ac 422

<210> 30690
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b04d1

<400> 30690

caaataaaa ctcatggtta tcatgacgat aaaagcaaca gttcatacaa ttaatgttat 60
 ataatcactg acttaggatc ttggatcacc attcaccacc actgttagtc agcatcaagc 120
 ataccctggt tctcaacctg gtttgcaata gagatatcat aagctgcatc attgcatgaa 180
 cataaacaca atgataactt atatgtttta aatataacaa ccacttccaa cggaaactta 240
 tttttgctta actaagcaac aaattcaaga gcagaaaatc aatgaactat cacagtactt 300
 cttggcgggg aaaaaatagc actttaatct aatttttttt aagcagcact tcccaaataca 360
 ctttctccaa gttaatgtgt gaaagaccac ctagtttggt gccctcctct gccttcttct 420
 tcaattccat gaccttttgc ctcatcttct ttctatctc tccctcca 468

<210> 30691
 <211> 561
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057b06d1

<400> 30691

acaaaaaaaa aaaagttgga ctgttttaga ataaaatatg tatcaacaaa attgaaatgt 60
 aaaatttaca atagtaacaa gtataacaac gacaatttat tataacaatc catagaagat 120
 aaacctaatt tctatatatg ccatacaaac aaacaataac aagttacaca tttaacaatac 180
 ataaggatat aaccagattt attaccaagt ttgccttcaa tccaagtga aaccactgga 240
 aaatttcaca gatccttggt catgtttatg aagctgacaa gctgctgaat atacgcttca 300

aactagaaca tgctgcacgc aatcttccca tgctcattga gcttatcttt ggacagaagc 360
 gaacatcaag agtctccagc atagtgcatt ttgatatagc agcctcaaca gcttcctcat 420
 taatgttgca agactgaagg aatagactgg tcaatctcgg acactctagc ttcaaaactt 480
 tcaaagagga acaattgctt agattaagcc agcttaggtn gagacaagct acatcaactt 540
 ccttcaaatt agctgataga g 561

<210> 30692
 <211> 447
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b08d1

<400> 30692
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 gacctcggtg gtgggacttt tgatgtctcc cttctcacca ttgaggaggg tattttcgaa 120
 gtgaaagcca ctgatggtga tactcacttg ggaggtgaag atttagatca caaactggtg 180
 aaccattttg ttcacgaatt caagacgaag aacaagaagg atattaacgg aaatgccaaa 240
 gcattgatga ggttgagaac agcatgtgac agggccagga ggactctttc tttcactgct 300
 cagaccacca ttgagaacga ttccttgat gaggggtattg acttctacac aaccatgacc 360
 cgtgcccggt tcgaagagct taacatggac ctattcatga agtgcattgga tcccaggagg 420
 aagtgtttgc gggatgctaa gatggac 447

<210> 30693
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b09d1

<400> 30693
 atcttgcaaa tcacgctctc attagtcaag tcattactga atgtccattg tataaaataa 60
 accacacaag atttgacgc cacgcatgtt gtaagtaaaa atatcagaaa atgatcaaag 120
 tcacgagaga acaatcaaaa ccaaaaaagg ccacacatac aagcacttgc ttgacagacc 180
 aaaatgtatt tgaaaaagga agggcaattg aaggaaccaa cattcaagat tctggaacag 240

aggccacggt tgttgacgtt gctgttgctg ctgctgctgc tgcacgtttg actgaggcag 300
 acttagtaag atgattatag ctccctttct ccttaaaaag ctgggagaag tgggtgcttgc 360
 aatacaaaat gccctcaagg gctgcgtaat tgcacggcgt tatgggacat ccaccatgtg 420
 aacacttgaa acatgaattg tgataggcct gccctttcac tgataccttt tacaatggat 480
 aagcaagttt tgccacatgt g 501

<210> 30694
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b10d1

<400> 30694
 cacatgcaaa gtgataattc tattctgttg gtttccaaat ggtacaaggc acaccaaaaa 60
 tacatgggtg atctttatatt ttgtgacaaa gaaaacatca tcaaaacatc tcttcgatcg 120
 ccgcctaadc aaggagctag gtagtcgcat ggtatggtag aaaactctaa gtttcctat 180
 agatagtgtg caacatgcat ggaatacaag gatgaaaaga atacatggat agtgtacatt 240
 ttacatgctc cttcccacaa agctttctac ttaatgggct tgaaagcttg atgaccatag 300
 tgggtgcaagt tgtacatttc attggcaatg ctgcagctcc agcacttgct gctcatcatg 360
 tggaggcata attctcttgg aacacccctg cttgaccttt gtgggaggaa tggccttatca 420
 aaataaggca ttaattgagc tcttggaacc at 452

<210> 30695
 <211> 539
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b12d1

<400> 30695
 attgtaataa gagaaaatta acattagcca gaattacatt agatattccg atgttacatg 60
 aaaattatac cagatctaga caatttcaga tcatgtcctt tgttaatact atcaaggacc 120
 taaaaaaca gaaaaattaa cctatttaca tcaaaggatg taattaacaa catcttatct 180
 aatctacacg acaatttaat ggaagattaa tcttccaaaa aaaaaacaag agaaaaaaaa 240

atctgcttag tcctttcctt tctttctgct ggctttttta tgaaaaatta aaagattaaa 300
 aaaaaagggtt aatattcatt aggtggagcc aagttaagat cgagattgag ctcttttttg 360
 ggctggcaat cgacgacgac ggaggacgag tcggagt.cgc tctggaccgg acccggttcg 420
 aatcgagtg ggaagggctg ggtcatgaaa tgggcct.cgt cgcgaaagta aaccggg.cgc 480
 atgggtgcga cgggggtgggt cacgaggatt tgctggtgat gggtaggaac ggaaagcga 539

<210> 30696
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c01d1

<400> 30696
 agattcaaca tattttatta aatatgctaa caacttaatg ctagctgac atcaatttag 60
 acaaaagctt acaactatga ctttaacaaac aattaactat ttttacatat aatcatataa 120
 ctatacaata ttaattgtaa gaacgttaaa tatattttct tgattttcac tataaaagaa 180
 aatttataat aatctaagtt tgggtttcag ctaattagct gtccagaaac catgaaaacc 240
 tagaggaaaa tttaagtggc ttggaatttt gattctcgca acaagggcat tatctgctac 300
 tatcctttttt gggccaaga tgacaaggga acatctattc attgaaacag catactcaac 360
 aacaagaaga tagccatcat cttcttggtt acctttggga acaa 404

<210> 30697
 <211> 570
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c03d1

<400> 30697
 cgcgagataa gaaataattt gcataagggtg tgtgatatat gatcttaaatt cttattttgt 60
 aatttttaac aaaccaacc ttttccact tctatgagac attcttgaac catcctatca 120
 ttatatttat aagccacatg ataggattta atattagtaa catttgaaca tattagcaat 180
 tctcaagaat ctcaaccaca actaaaccaa aacaacaaac agtaaagcat acaaaaattg 240
 gtgtgttcaa aatgtttgac aatgaaaaac agcccttca cttgcagata ctttttggtg 300

gcatgcaaat ttagctgtat tgaattcata aagtgtcaac aggtgtatatt gattgtgctc 360
 cccattcagt ccaagatcca tcataaactg caacatcaga ctttctaaga cgatgaagac 420
 ccaatgcaag aatgcaagca gttacgcctg ttccacatga agtcacagct gggctttcca 480
 gagagatgcc ttcttgttca aatcgcttct tcaactcatc tgctggtaac aatgtctgtg 540
 aactatctaa caactgtgca aaagggatgc 570

<210> 30698
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c04d1

<400> 30698

atatagaaac ttctgtgcta tacatagcac atatatttga taacaatcat cattcaaaaa 60
 ccacacatgt ccgacagaag acgaaaaagt agacatcaa cacacgatat ttcagacact 120
 ctaataatca tcatctcctt caccatcatc atctccatca ccagactcgg caccaacctc 180
 ctcataatcc ttctcaagag cagcaaggtc ctccagagcc tctgagaact caccctcttc 240
 cataccttca cccacatacc agtgcacgaa ggccctcttc gcatacatga ggtcaaactt 300
 atgatcaatc ctggagaaca cttcagccac actagtggag ttcgaaatca tgcacacagc 360
 cctctgcacc ttggcaaggt cacctccagg aacaacagta ggaggctgat agtttatacc 420
 acacttgaac ccagtggggc accaatccac aaactggatg gttctcttgg tcttgatggg 480
 ggccacagca gcattcacat ccttgggcac gacatcgctc cgtacatcaa acaacacgcc 540
 atgtacttgc cgtggcgagg 560

<210> 30699
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c05d1

<400> 30699

atattagaac ataattactt aaatacaaaa ttgaacacaa agtgcacaaa cactacaatt 60
 ttactcgaaa ttccatcatg tagacctcc cttagaagaa cacctactcc ttacaagatt 120

tattacacaa caatttccca aaatcatgag tctctatcac acccacaatt ggtctatttg 180
gaagcagtga tggatgcata tcgagctttg aagaacccca caaccctatc tctttgggga 240
agattctttt tcacaacagg gtggttggtg tagtcttcac cccatttgta gagttttgga 300
aactttctcat tggtcagcaa tttcaacccc acagcctctt caatcgaggg gagccagaaa 360
gctatgaagc cagcggctat gtccactatg cctatagtag tctcacctcc aaagaacttg 420
tgtttgagta cattctcaag aatttgaaga gactcgagtg attcctcagt gcccttggtca 480
cgttcctcct tgactgcagt aaatgctgcc tttgatattg aggcattgcat tt 532

<210> 30700
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057c07d1

<400> 30700

ggcccaaaac gggaaaattt taaaacaaaa agggatgggg gaaaacccca aaaaatcccc 60
ctttcttttg ggaaaacagg gtttggaata aataagggga aaggggttgg ggaaaaataa 120
attgttacia aaccatccta aaaccttaaa attttcccc cccggttttg gaaccccccc 180
attttaaaaa attttttttg ggggttttaa aaaacccaac ccaaggaact tgaaaattca 240
ccttttttaa ccttttcctt gggaaagttc tttccggata aatttggttg gggaacccat 300
ttttggaagg gctggtttta ttttaagggtt cttgcggtt ttgaaacccc aatcaggggtg 360
gcccacaaa aggtttttct taaccccctg aaggctttta tggattctgt aaccatttct 420
ttaaaagggg ggaatttttg gg 442

<210> 30701
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057c10d1

<400> 30701

agtagggaaa aagaataaga ccattcaatt ttttaattaa ttacattat tccatgttta 60
tacacttata aattattcct taattttcaa tatatcacgt gtaataaatc tataaggcca 120

aatttggttaa tcccgcgggt tactcttaaa ctgcgagaag ctgccacggc cacgtttgaa 180
 acgccatggt gcacgggaat gaacatagaa catagttgag gtagttggct tagaagacat 240
 aggtatggag gtctacattt gtggtctggt ctggacaaca tagacttttc catccttgat 300
 gacaccttca atgtcctgag gagtgccata caactcttca atttcatttc ctgcacgggc 360
 aatgctggac aagattgact ggcgaaaact gccatcaagg atcagtttgt ctgaagaata 420
 atcaagcacc accttctctg cttcatccat tggcacactg tcataaagac ctgcaccagc 480
 ataaccttct agatcttcac cattggaatc agatcgaaaa ataattgacc gtcttataaa 540
 taggccgaca gg 552

<210> 30702
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057c12d1
 <400> 30702

ataaataatt ccgttcatt cttaatgacc cagggttaaaa ttcagcaatc ttctgagtac 60
 aacaatcacg caagacggta gtaggtcttt ataaagaaag acgtaccaac ttgcaaaaca 120
 tggaaaagga caaaaagaac agctcccaat actccaggct ttggagggtg tagggcttga 180
 gtcaaaaaga taaaacatgt ccccaaatac agttgtagat gaacaagtct aaatctaatt 240
 ttgtgtcttg ataccattgt ctgtgtggtt tcctgattct tgttcattct tgggagggtg 300
 ttctttctcg gcatcaccaa catcattgca attgttctct tccaacaatt gtgtcggaga 360
 ttctgctttc ttggcttttt ctaaattctt agggctcaaa aagctaggct tggttggttg 420
 aagaaaggag tcttgccac attttgtcag ttatcacacc cttgttctgc ctctc 475

<210> 30703
 <211> 226
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057d01d1
 <400> 30703

agagcaagtt catatcgtag gtttatacag gatcagccaa gaacagagtg tactttgtga 60

ttttcagcta cataagcctc tacccacgta aacggcccca ttacaacagt ctaatgacat 120
gacatcaacg acatggggcga ccgtataaaa acaagacagg gcctttgctg ggggggtggca 180
gaggaacaga aggatcaaat tcagactggt gaaactattt ttgcct 226

<210> 30704
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057d02d1

<400> 30704

gaagttggca aaaatatata ttcttattct caatagatga aaaatcatct agtagcacca 60
aaacacagaa catgttttcc caaacaatga caatggctat actacaatat atggttttgt 120
tgtatcatca aatgaatata ttccaatcag acccaacttt cctcttttaa gactatgtac 180
acagataact cttctaatta aggcaaacca ctcaatagca gtaagaaaat aaaagcatgc 240
acacaagtgc aattaactct tatcattggg acatcaacat ggctctcca cagagtctta 300
ttagcattcc accccaatt gtttgagcac tggaccagtt tgcttgggca agaagggatc 360
aatcctgacc caaatcaatg agaaaataga tgctagaagg attgaccaca aactacaat 420
ggtaggagtc ctgttttgct ttcccatgag acctttgagg aaagggtaca agtgaacaat 480
gaccagaag gcaaagaaca gcttcccaaa caaggtcccc atgaaccata 530

<210> 30705
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057d03d1

<400> 30705

aacaaaatca ttgtatgata gacaatcatc aagtgaggtt caacaacaaa ttcaatattt 60
aacttctcaa ctcttcaca aaaaataact aaccctata accaaacccc aattacttga 120
gaaattatta gatagtctca gaccaccaca tgttttatga tctcaatcaa tcaatctcta 180
catgaaacta gtcaagcatt tcaattaact atgacactca atttcatgtc atgtggagat 240
caattaggaa tttggtctga actctgaacc acaggataat ctctccactt acttatactc 300

aaaattgggc acagggggag catcgaaact ctccagaatc ttcgtctcgc ttccgccgct 360
 gccggcggtc tctctctgt tccctccacc gaaccacccct ccgagccacg gctgctcgga 420
 cgactgcggn ggctgcggct gcggctcgtc catgatcata ggcatgggct gctgcgcgct 480
 gaggaacttg ttgagcatga tcc 503

<210> 30706
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d04d1

<400> 30706

ggctaccaa accaaggggg aaattaccat gtatataaat aaaatcaacc attgaactat 60
 atataagtgc ccctataggc agaaacactc ttctcaatgc aattcaatac catacaagtt 120
 taacttgcca cgggctttgc aatgactttc ttaacggctt cagcataagt cctgtgctga 180
 taggtgagag ttgattcaag caggtcccaa agtgagggtt taggattcca gccaaagctgc 240
 ctattaatta tggcatgctc aggaattctc ttgtcactat catcatatcc ctcaccataa 300
 aattctttgg agtcacatc aatagtaggt tttccagag gtgcttctcc acttaccttt 360
 gaataaacct gagtcatcat ttcagcaagc tgccctaactg taacctcatt gtttgggttt 420
 cccacattaa aaatatgtcc attagccctg gcgggatttt caatcatcaa taagacagct 480
 tcaatagcat ccttaatata cacaaaagtc ctctgggaat ggccaccatc cacaagcttg 540
 aggg 544

<210> 30707
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d06d1

<400> 30707

acttcgataa ctttatatta ttttacatgc atgcatagca tagatagcct gctctcaaat 60
 tagtcagcag gaacaaagat agagagatcc aacgatcttt aaatttcaca tttgccataa 120
 atatataaca gaaaagaggg tatgggatat gagttaagtt ttgatctcat tcaactacag 180

tatcccaaac cattactctt aagactttga acttcacttg tactccagga tcatgttggt 240
 ctcaggagct aatccaacac aagcccttag gatgttttcc agcatagctc gctgctttga 300
 cagtgcatta accactggcg tactcgggtg aaccagaggg gccttgggtca ggtaactgag 360
 gatggtcgca actgggtgga atgagtggaa ctttccctca ttttcagctt taaactcgat 420
 tcgagtgcta agctcagcaa gaaggaccaa gtccaagata ataggagccg ctaacagtga 480
 atccttaciaa gtgggtgtgca acacaattgt gttcttttgc cccatgaata tctc 534

<210> 30708
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d07d1

<400> 30708
 accacaagaa caagccttta acatttagca acaaaattta tctgaatata aagtatatgg 60
 ttaattgggt cacttccatc acttcgaacg tattacagtt ttatacaaag tagaacaaga 120
 gaaacagata ctacaactga atcaggttct tgaaacaata agtaccaaga aggaaccacc 180
 caataagaat ggaagtgaag aagaacaaaa actttaggaa ggtgaagccc cagaatgtga 240
 ctccaagaaa aaatacaacc acaaattggt agatagatcg aagcatagat gctttgctga 300
 cccaacgtcc attgaataaa atgaaaattg ccagattcac cacattccat tcaccagtca 360
 gaaaacccaa cttgttcaaa ttattggcaa caaacgagtg gcagttgcag gtaaagagat 420
 tgtaagatag atgttggaat tcttgagtgc ttttccttag tgcattcatc caagtcctca 480
 aatctcctct agtttcaccc tgcattgagt gttcctacca ttgtacacag actggactaa 540
 gggacacaac actttttttg gg 562

<210> 30709
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d08d1

<400> 30709
 aaaactaaaa aacattgaat agtatacaac tgtatgctgg tcaaacctac atgggggttc 60

cagttacaaa gactaatgag cccacaattt taaaaactta agcaaaggca agccaacttt 120
 ataggttctt ggggtgcacaa gttatcaagc ttgggaatta agggaaaatg gacatggcca 180
 atttcaatag tcttcacata tgtttggccc tctaagcaaa agcttcaggg tggggccataa 240
 gtttgtcaaa ccctgggtca tcaggtcttc tggtttaggc agtaggcagg ctgcaggctt 300
 catagatctc agctgcatgg accattaagt ctagtaagca tggtttctcc tcctaaaagc 360
 accactctga cttgacaacc cagca 385

<210> 30710
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d10d1

<400> 30710

agataaaaag caaaatactc taataatata cgtaataaaa agtggcatta tggaataata 60
 atatctagga gaaaagacaa actaacatat gtataaaact agcaaagca aggaagttac 120
 aaaacactac acccggtcaa aattgcatta attcagtcag cctaaaaaca agtacaaact 180
 tctgaataac aagaaattaa atgacctaaa aaatgcacct acagagtcca tacatattct 240
 ggtgcatctt tccttttccc agccaatgta cgatacaaat acatcttctc taccttctgc 300
 ccatcttcca gactacaatc ttcttgctcg ttttcattga agatctccac attcaacctt 360
 ggcattcttct tggctagcaa cttgcaggct ccgacagtca cttcacagga cgacattcaa 420
 agggatcgca ttgtttcata cttccctacg ttcgtcagaa gtgccat 467

<210> 30711
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d12d1

<400> 30711

cgctaaatag gaaatgctct catcagaata taggaccagc agagacaatc tcttcagtca 60
 acttctgatc ccctcctatc ttgtaggctg tgaatccatc aaaattcttc ttgaataagc 120
 ttgctagttt caagcgtgta tcttgatagg ctttcttctc agaccaagta ttcacagggt 180

ccaagatttc agaagggact ccctctagtg ctgttgggat ctcaagccca aacacttcag 240
 tcttagtgta ctgtgcattc aaaaggctcc cagagtgaat agcatcaatg attttcctag 300
 tatacgctaa cttaatccga ttgcctaate cataacttcc tcctgaccag ccagtattga 360
 caagccatcc agtagcccca tgcttctgca tcttttggt agcattgctg catatttggt 420
 aggggtgcatc attataaacg ctgccccgaa acaagcagag aat 463

<210> 30712
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057e03d1

<400> 30712
 gggggcaaat ccaaaaaagg ctgcattggc acatagtcta cataaccggg gaaactaaca 60
 gcaatcaaat ttgttcccca ttgggaatgg gaatttgaat acaaaccag ggcatcaata 120
 atataaccct atgtccccag ccaatTTTTg actgaaattg gatccaaaat agtatcaatt 180
 gggatcataa aaaaagggcc caaaaaaatt tatgtgaagg taaaggggaa gggatcacc 240
 gggggtttaa attcttgggc ttttaatttac ttaataatgg gtccttcct gcacgttcac 300
 atttccttta tctgtttaag cactgctgac cttgttctta ccccaaagg tccaatggg 360
 tttagccgga gtaccctca atgccttcac tccgaagg 399

<210> 30713
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057e04d1

<400> 30713
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 tgaactttga aataaatttg ggacatggga cactttctga cgtctattat gaaaggaaga 120
 acgttcaaat gactgtata ggcataatta aacgggatat tacatgaaac tagaagctaa 180
 gcagtgtctg ctgccggttg agtcacccca aactttacca acagcttaat cagggttttt 240
 ggggagcaaa cttgatactt gacttttcca gagggtgaga gaaatacctt tgcaagctca 300

agcttttcag aggtaaaact tgtgctggcc atagttttac ttagcacctt cagtgcgaagt 360
tgaactgctt cttcccttgg gatatcatcc ttgtagtccct gtttcagaat tgactgtgct 420
gcctgggttg tggcaccaat agctgcagct ttccaaccac cataatttcc actgggggtca 480
ctaattgt 487

<210> 30714
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e06d1

<400> 30714

aaggggaact ttcatttgaa tttgacatga caccgaaaa tattggcccg ttttgaagtt 60
ttgtgaccgg aattttaaat tttcccaaaa caggccaaat tttttaagct acagctacct 120
aaaactttga atttcaagaa aagatttttt tccctattgg ccaaagaaaa acaacaaacc 180
ccccaaaaa gctggaactg caaaagggga attcagcggc ttccaaatgc aactggttcg 240
gtattgaaga gatactttac ttgggacaaa accgaattat gtgccggatc ataaggggtga 300
actttaaaag ggatttcaag tattgcatga acgggcttgg tataactttt caccctaaac 360
cttatcatat ttg 373

<210> 30715
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e09d1

<400> 30715

agaaattaaa ttaaagctaa ctttattgtc atcctcaaaa aaataagaaa aaaactgaat 60
tcatgaaaca caatcaaaga gcgatgatga tgactcgcaa gtcctgact agaataatct 120
cgtggagtat ctaatagaaa aaagtggcgg caactgaaag caggggtggca aatactccaa 180
caactccaag agatgcagca ccagagttct gtgggggagg agtgacagca ccggctggag 240
aagggctaga aggagtgtg gggggggccg cggcggaagg tgggtgtggc gcgctgctgc 300
cggtgacgtt gatggcaagc ttttgacctt ccaaacagtg ccttgaatt ccacagatga 360

agaaatgttg accagatttg ttgagggtca ctttcgcatg cggagtgggtg aaagtggcaa 420
taggagaagc tg 432

<210> 30716
<211> 492
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e12d1

<400> 30716

ggtgaaacaa ctttagaccg caaaattcaa aatccagaag tggctagttt tttggttcac 60
caaaagcctg gtacaaaatc ttaacaaatg aaaacaagtg gctactcgcc acaatgataa 120
ggcaaagtga acaaaaaaaaa aaaaaccagt aatatatgat atgtgaaaaa caggtaaccg 180
atcctaataa atgcttataa ttgaagtttg catccaatgt ggatatgaag agggatatcc 240
cgacctcttt cgggccttgc attatatgag acctagacaa gagactatgt ccttgaaatg 300
gggggggatca ttttactagg aagatgcttc atgatggatg cagtgccac acgatgcagt 360
gccaccactg aatgcccggtg gtgggagaga cccttggact tggcatgttg catggcgaat 420
tctattgctt cttctgttgt ttcagcatga gaagctctag cagaagctgc actcaacacg 480
gggaaccaac cc 492

<210> 30717
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f04d1

<400> 30717

aatcccctaa gggttaattt atgctatatt ctaaaaatca aaccattcat agctcctaaa 60
atgagatatt tatcaactcc acaagctagt taacatactt cattacttac tggcctaaga 120
aaagtatgca tatacagctc atcaatctac agattcatgc aatagtcctc atgggcctga 180
gcttcagcta gaccaggcac attgaagagt tcattaacat ctgcccctag tatgcatata 240
caactcgtga acctactggc tactgattca ggcaactgtt tacatgacca tgggctttat 300
ccgagatctg gtaccgggaa acgctcatca gcatcttgat ttaggacttc aatcctaggc 360

tttttctaag acaacaagga tttgggggct ttgtgtgagc caacactgct agtcattgga 420
agctgaggaa ctttagccgc cgcttaagct tatgaggaaa ct 462

<210> 30718
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f06d1

<400> 30718

aatgtcatta ataaggataa gatatacaaa atcccgaacc ccacttattg atgattactt 60
aggtaaagac cacgatcgat gtttattaat taaggagcta gcatcgagga tatgtggagt 120
aaattagggt tagtaagttg catattgttg caactaatta atccccacag ttgacaaaact 180
gatagttaac aatgagatgc ccctgttgat atcctcttcc atctgtgtct atccgattga 240
aactccac gtccaaatct aaccctccgt tgctgcactg atcaacaatt ctcaacaatta 300
tggtcgctcc cgtccctgta ttcgtcacc ggaggcattt tccacaagca tcacggccgt 360
gaggtccaac ggggccacag aaagcagtcc agccatattt gctgcgcaa gagtaagggt 420
tggcagcgtc ccaagttgag caataagcac tcaccgtgtt caagtccac ccgtgttgct 480
ctggtaaata gttatgatac gtggcgcgac attagacgca cttt 524

<210> 30719
<211> 495
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f07d1

<400> 30719

agcaatctct atttcattct tcaattgaga caagctcatc ttttgtgctg cttatgcaat 60
gagtaacaag aatccacatt agaaatccca actccatcat cagtctctat ggatggattg 120
atggatagaa ggaccatacc aagtttgcaa agagcaatga acacagaaat ttaaggcatc 180
tcatttgatt cacctgttga atgtgccatg cgatacgaag aactgataat cagggtgatt 240
cacctgaagc agccttaacc agttatctgc agcctgcaag agagaattta ctacttgact 300
ctcactaact ccattttgtg tccaaataga tccctttaac ttataggaag ccattgcaaa 360

agttggtaag gaaatctttg gcacaccgac atcaatgtca tttggataaa ccaaaattgg 420
 ggcttgagta cctccatttc ctgtcaaggg tgtatggagt gtatggatatg taagaaagca 480
 cgcatctaaa tcttt 495

<210> 30720
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057f09d1

<400> 30720

actgggaatc aaatcaaaat aaatacaaat gagaaaatta tatatatttg cattaccaac 60
 tagaaaatac atttgaccaa gaaaaccaag cccactataa gcagagagag aagtatagct 120
 tgaaatgagg ggcaagattc tctcctgacc atacgggttc tacaaccatt accaaaactc 180
 atccgacatg aatgatcaac ccacgcccac ccttccaaca gccccctttt catgcatggg 240
 caatcacgag caaataaacc gaggatagtt tgactggtga aggaagaaaa tactaatact 300
 acttgatgc aagcttccat acttcacgaa cattagatga accatctgtg atttcagcaa 360
 ccaggctact agtcatgaca ccaccttct ctaccacaga cagaaaccgt cgagtttcac 420
 cacctacttc aaaataatac ttctttggtg ccatatacac tac 463

<210> 30721
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057f10d1

<400> 30721

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 caaataaaca tttttcacta cttacacaat gcacacagca gcaagtgtc ataagttaaa 120
 aggaaaaaca aagtgaagat gcttggtgca agaaacaagt ccacagtccc cggtacata 180
 taaattagaa aatgagaat ctaatctcac tgaaaactgc actggctgcc aatctccaag 240
 tctgcttgc cagttacctc ggtcgcatca atttcttcaa tatgcttggt cttgtttttg 300
 aggtcagata agccatttac atcactctta tcaccatagt tgtctgtctt aagtgtgtga 360

tgctttctcc tgattccagc tcctttctcc ttgtcccctt cagataaatt aactgcacca 420
 ttggtgctct ttcgccggcc cagctttgga gattttgttc gcgttgctgg tagcttcttc 480
 aattcaacct taggaggggg 500

<210> 30722
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057f11d1
 <400> 30722

aatcagaacc gtcccacact cccattaagt tgtcttcacc ctgtcagaat tacaatattg 60
 tcccagagag aaggggagat atatatatta ttcaacaagg ataagaacaa cacaatcatt 120
 cctcttatta tgcaaacaag taaacaaggg gctaatttgc atttaaaaac ctgaatctaa 180
 atttaacaca ggatgtatca tctccaagtc attgtaaaat tcttggacaa aaatgaaaac 240
 aagaagtagc aaccggctcc ttttaaagt gaatgggctt gtcataagt gccattgcgg 300
 cttctttcac agcctcgtc attgttggat gtgcatggca cacacgtgca atgtcctcac 360
 tagatgcac atactgtagt gctattgtg cttcatgaat aagctctcct gcattgggtg 420
 ccataatgtg cactcccaat atcttgtctg tctccttttc agccaatatc ttaaccagtc 480
 cttcagcatt gtcaattgcc ttagctctgc tattagccat gaacgggaa 529

<210> 30723
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g01d1
 <400> 30723

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 ttgacatata tggaacacat acataatcca tatagcatta cttagtgggg gggcatttct 120
 tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg 180
 aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt 240
 gtggtagtgg catcttcttc agattggaaa cgcctcaatg atggaaggga gagcgttgat 300

cttgatgatg ttgtaacgcg cgaaaccggt ttccttgaac agccacttcc agttctcttc 360
 ggtcctctct ttgccaccgg cgttgtgagc gagaagcatc atgtcgaatg cgatgccaac 420
 gtctgtgaag agttcgttgc cttcgggtcg aagaacgtga tccacgatta tgacttttcc 480
 tgtcttctct ggtattgcct ttctgcagtt cttcaagatc ttgatgcagt gctcgtcgct 540
 ccagtcatgc agaatccact tcatgtaaat agcatcagca ctaggaa 587

<210> 30724
 <211> 280
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g04d1

<400> 30724
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 aaggggccccg aaaaccaccc aagggaaggg gggtaaaaac ccacaaaaag cccagaaaaa 120
 aaaaccttgt ccaaaagggc ggaaaggggg gggggggcaa aaaaaaacct ttttttaaaa 180
 gggggggggg aaaggggggg aaaggggggg gggggggggg gggcaccaag gggggggggc 240
 cactgggggg gcggggggtgg gggccgacgc caattccggg 280

<210> 30725
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g07d1

<400> 30725
 ctggagttaa tgatggcaca tcttaattga aaaagagaac ctgaaatgga cgactatgcg 60
 gcacattttc acaaggccaa caacttaaca aactgccta cttataaaaa aagactatat 120
 caataccata gacacaaaat tacaatgatc cacaatacat atggcaggca gtaccgaaaa 180
 ggcaaaaagt gatacctaac acaataaacc ctagttgttg gattactgaa gtgcttcaaa 240
 tatcaactta atctgctccc caataagtag tgagcgattc gcaaccagtt ccatctcagc 300
 aagtcgcaat ttcctccact tgcccttcaa ctctttctc ttagattctt caattaacgc 360
 caatcccctc ttcattctcat cctcattcag ttctttgaaa ccagatactt cgcggtaaag 420

caaatttaca ttcccacact ccttcaactc catcgactcc agtaagtgtt gtagtttcag 480
 atttttgcta ctacattcct gctagtagca tccttctttg gagtctcggc aagttttctt 540
 t 541

<210> 30726
 <211> 262
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g09d1
 <400> 30726

gggaaaaaca cttttcttaa tgcttttcaa aaccatacaa gtataacttg ccacgggcta 60
 aacaatgcct atcttaacag gtattccaaa acaactgggc aaaaaaaca gagccccata 120
 aagccggtaa aaaggtgagg ggaaaggatc cctggcaagc tgactattaa ttatgggtcat 180
 gtcccgaatt ctaaagaggc tatgatcata tacattacaa tagttctctc agtagcttaa 240
 atcaataggg gggtttttca ca 262

<210> 30727
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g10d1
 <400> 30727

atgttagctg taatgtaggc tttattacaa ctgaggtaat ttgtgcagct gtcattcctt 60
 taatagatga ggaattatag gatccttata tatataaaat acatcagact tattcttttaa 120
 aactttctat aatccccatg ctgagtttcc gaggtccctt ttccctctct ctattcaact 180
 tcttcaagtt tgcgttcatt tttactagtt cactcctaac aaattccaac ccaaataatc 240
 cttttcccaa accccaaacg gctacaggta ccaatggcac atgcacaaca ccaacctgaa 300
 ttaatttggg aacttaaagt ataatgcaag gcgttggtgt attgcaataa cattttggag 360
 gaaaagagat cagaacaaaa aaattaaata tctaacaatt tcctgatatg taacaaaaaa 420
 taataaaatg agaatggaat gtaagtgaga ccatgataat tacagcttct caaaaaatgt 480
 tcgagt 486

<210> 30728
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g11d1

<400> 30728

atgcattaat taattttcag tattataagg ttaggaagtg tgaacttttc cataatgata 60
 aatgccagtg gttcaatagt cctcatgcac gggatccaaa attaaaagga aagccaaaaa 120
 agttaacccc agataattat atataaagca cttttgcaca ccaccaacct cttgaattct 180
 caccaaatta aaccgtgggc gcacacttta caaataaatt aagagaagaa aaaaaaagca 240
 tttaatggag agagagaaaa aaaagagaga tagaaaaaga aagaaacatg aattacaaag 300
 gccatgactt gaatcagatc aaaattcact ggaaagaggt tcatgggcag agccaatgaa 360
 gacattgccg tatataaggc cagccaaacc accaccaatt agagggtcaa ccc 413

<210> 30729
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g12d1

<400> 30729

atgcattaat taattttcac ttttataagg gttggaagtg tgaacttctc cattatgaaa 60
 aaagccaggg gtacaatagt tctcatgcgc ggtctgccaa attcaaaggc aagccaaaaa 120
 agtaaacccc cgatctttat atataaatca cttctggcca ccaccaacct tttgaatttt 180
 tacctaatta aacagctggt gccacttttt caaattatatt tagagaagaa aaaaaaaccc 240
 ttgaatgggg agagggaaaa aaaagataga ttgtaaaaga aagaaacatg aatttccaag 300
 gccatgactt gaatcaaatac aaaattcact ggaaagaggt gcctgtgtag agctaataag 360
 gacatttgcc tagattaggg cctccctacc accaccccat aagagggtcca acccaggaga 420
 tcca 424

<210> 30730
 <211> 397

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057h01d1

<400> 30730

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aaaggggcaa aaatTTTTTT ggggaatcaa tataatgatt agggggccca cctccccggtc   60
ccgtTTTTgt ggggaagggt aacaaaaaaaaa ggTTTcctcc caaattacaa aacccaattt  120
gaaaaccgga agggcccttt ttttttccaa acgagtTTta cttcaaactt tcacccttta  180
tataaatgct gggggaagga aaaactcttc ccttaactgg tttttccaaa tccccccaaa  240
aaccctaat ttaaaatcct ttcgggcacc accggaaaaa aaaaggggcc tatttctttt  300
aatggtgaga ccataaaaac tgtgtcgaaa cttggggggg gtgtccctga ttcttttagg  360
gccccctgc caaaaatatt tcttccattt cccccac:                               397

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<210> 30731
 <211> 379
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057h02d1

<400> 30731

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aaaaaaaaa aactTTTcca tttaaacccc ctgtctttgg aaaaggaccc ccaggggggg   60
ggcaaacaaa aaaatgttaa ttagggggcc taaaaattgg gagccgggtt tattttccag  120
aaaaaaaaa aaacctTTTT ttggggcatt tttaaaaaaa aacccttggg taaggggggg  180
gaatttttac cctccggggg tgccccctgc aaaaaatttc accgggaaaa acggtttccc  240
cgttcgccaa ttttttttta accaaaaaaaa aatttttggg ggtacaaatt ttttttggcc  300
cgggggccaa attggccccc aaaagcaaac ctttggaaaa aaacccctc ccctcccaaa  360
tagctttggg gggggcgcc:                               379

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<210> 30732
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057h03d1

<400> 30732

agtacaaaaa caaaacttct catcaaaatc tagtgtcacc ctaatgtaag cttgaattta 60
 aaaatatata cagaaatcca gattagcttt cactggtagg catttcagac actaactttt 120
 gacaaagaaa tcaaaattca agaactttca actcaaaagc aagacctttc gtctggaaca 180
 tagaaatcaa atgtaacatc aacagaaccc ggagtttctt cgggggtcct attcttaaca 240
 tttggtattg gtcccaaate aatcctttct tgggtattacg ggttaaccgc gcgtacaggc 300
 actgggacac agagtaaata gttccaaata tgtgtctgag ggagactctc agtggaccta 360
 taccgtgaga ttatatattcc acaaattttg attagggcac gcaaacaatt gctaacaata 420
 tttcgctttg cctcatcact tacttttacac cgatcagaga acagaatcat cttaaagcgt 480
 tgcttagcaa tcctagcatt ggagttttgt ctagatgttg ccgatgggaa aattatcttn 540
 catgcccaat ttaaccgctc aaagaagttc attta 575

<210> 30733

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h05d1

<400> 30733

aacgacaaaa acagcgagca ttcaaaagta tccattgcac cgagatgagt cctatacgct 60
 tacttgacaa tatacaatac aaaacagtat caagagaatg atatgaaact caacgtgaca 120
 aaatggcttt cggtagcttg ctacctgggg aacatataaa agtaaaagaa ctatataaat 180
 taatgcagct gaggaaccca aaaattcaaa tctgggcca aacaaatggg aaaaactgag 240
 taaaaaaaaa cttcctcatt tgctattacg ctgctgtggc agaggtgggg gctcttaact 300
 cgattttgta tcctttcttt ccgcaatacc caaacttaac atacttttga accctttatt 360
 gtctgcacaa aagaaaattc gaccagaacc ttaaagaatt atgttttagg tcttccttat 420
 tgttcaattc atgaggctcc gagcttctgt ttgttaagat caaaggaatg aaaggaaaag 480
 tactgaatgc aacagtacaa cgcaggacac aca 513

<210> 30734

<211> 289

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h07d1

<400> 30734

aggaaaaacg gatgatagta gtattgatcc aatgggcctt tttaaagtca atttttcccg 60
tgcttcaa at tggtgcactt ccaaaatgca tttgcttgca aatgacttta ggaacggaat 120
cgaacattgc ggggttcatt agacacaaat tgtgcgttaa aaccttcact ccttctatca 180
gttacaagtt gtattctttt ggtaattcaa gcctccaaag agttgaaacc ctggatggta 240
ttggcttgtc aatatgggta ctggtttcca tgctaaactt catttgaca 289

<210> 30735

<211> 435

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h09d1

<400> 30735

catcatataa aatatatatg ttctgaaaga acacatacaa gtacacaaaa aaaaggggga 60
aattcataaa aaaatacaga aaaaaaaaaa cagaattgag taagaggga ggaacatag 120
agaaaatttt agcaatcaga taataagaag ccagtagtag tgcaaaagtc ccttgccaag 180
agtgttgga ccccttttag ttaagcaggt accttctccc ccttgagtgg cttcaccact 240
ttccatgtga agtcagggtc atctttgcca aagtgtccat atgcagcagt cttcaagaac 300
ctgccatttt caccctttt gagatcaagg ttgatggaga tcatgccagg cctgaagtca 360
aaactctcct tcacaatgct gaggatttcc ttgtcaggga tctttccagt gccataagt 420
ttaacaaaca cagac 435

<210> 30736

<211> 530

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h10d1

<400> 30736

aacttctcga aggaacaac aaagtaagaa actttcgaca ataaacatag ttgcatcaa 60

atatcagacc ctcatagcaa agataaaaca ctccactcca cactggacaa ccttattcaa 120
 cacaccacac accttaaata gtttcaaaaa actcaatact aatgacacag accacaccac 180
 tggagatagt ttgaaagcag caagggaaaa agcactctc cacaaaacaa ggttgctaaa 240
 agtaatcttt ggcatgcata tcatatcttc ttaacaataa aacataactc tcttaacggt 300
 ctctttgagt gcaggcaatg gtctcacagc agcattagca ccagggtgcc gggtgctacg 360
 ccctacacca ccaccaccgt cgacacccat cccacggcct gcaacagcac cacttgctcat 420
 agagccacta tccgaagtct cgggttccat gtaaaacctt gcacggaatg cagtcagggtg 480
 agcatagtat gcaagaagca caattgaaac agatcgggtg caccgagcat 530

<210> 30737
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057h11d1
 <400> 30737

aaaaatgccc ataaaattgg ggttaaaaaat ttcccgttgc aaagggacta ccatttacat 60
 tggtccggcc taaaaatttc agaatttaat agctccccta ttagtttttc tagcttcttt 120
 gattggaagg ggggtttaac tcccatgggg tttccataaa cagcacaagg gtcttttccc 180
 aaaagaggat tggcaatata ccaaccttcc ggggtaaagg gaccatttga ctttttaaaa 240
 agttccttat caattttggt gaaaactggg tcacctcgg gaaacttttg agcaaaaggg 300
 gcccccttg ggaccatggt atcaaaaagc cccaattttt aagaagactt ggatgctgtt 360
 ttgggggggt gtccccctt t 381

<210> 30738
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a01d1
 <400> 30738

gagagaacat tttttttgtt tcatcatata aaatatatat gttctgaaag aacacatata 60
 agtacacaaa aaaaagggg aaattcataa aaaaatacag aaaaaaaaaa acagaattga 120

gtaagagggga aggaaacata gagaaaattt tagcaatcag ataataagaa gccagtagta 180
 gtgcaaaagt cccttgccaa gagtgttgga acccctttta gttaagcagg taccttctcc 240
 cccttgagtg gcttcaccac ttcccatgtg aagtcagggg catctttgcc aaagtgtcca 300
 tatgcagcag tcttcaagaa cctgccattt ccacccctct tgagatcaag gttgatggag 360
 atcatgccag gcctgaagtc aaaactctcc ttcacaatgc tgaggatttc cttgtcaggg 420
 atcttgccag ggccataagt gtgaacaaac acagacaagg gctcatgcac accaatggca 480
 taggaaactt gcacaattgc cctcctagca agtgcatttg caacaatgct ctttgcagct 540
 tgccctacaa tgtaggcacc acttctat 568

<210> 30739
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058a03d1

<400> 30739

aaaaaaaaa ccctcctccc cagggagggc cttgttttgt tttttgcccc caaagctccg 60
 ggaaaaaaag gggatttttt tccctttgga aaccagggc cctggggggg catccatcag 120
 ggaaacctgg gaactggttg tttggggatt gatttcccc cccctttttt aaccaacca 180
 agtgtttatt ttcaccccaa ccccggggcc agaaaaaac cccctttttg ggaaaccga 240
 aagtgggaaa ccccccttt tggggggggg ggccccttc cccccccag gggtttcaa 300
 agggggacca aggacctccc ctgggcccac agggggggac ccttgggccc ctttttcccc 360
 cggggggaac acccctttcc ccagagagga gtggggggccc aaacttcttt ttaaa 415

<210> 30740
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058a04d1

<400> 30740

gaataaaaga tgacataaca gtcagggtgc ttccaatc cttttttgtt tcaatcacia 60
 gtcacaaaat atttttcacg tggaataagg gaaataatag aacagctctg gaaaaaaat 120

atgataaatc ctaaaattac agaattctat aggggttgaa aagtggcaca ttacagcagg 180
 ggtgcatcag caaagacctc agccagcata ccatcatcac taccttcctt ggcaagcagt 240
 tctgcttctt tctcttcctc attggaaaag tctcgtcttt caagcttggc atgagctgca 300
 atatacacca ctttcagagc tctttccaag gaaactctgg agtgcttatt tgcagaaatc 360
 ttctgatga aagaacaatt actcttaaact ccacttgagg ttccatgcag aaaaatgagc 420
 ctactgcaa gcttccaag ggatttaaac tcgctgaggc aagtttgcca aacaagtcta 480
 ctgctgagtg gatttgcaac ct 502

<210> 30741
 <211> 589
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a05d1
 <400> 30741

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 aagaaaaaaa tgggcaacca ggcataacag cctctataca aataacatta tagtagtaat 120
 tataacacaa atatatgacg gctgaaattc aatattcgtt gtcttaatta tcttctgaca 180
 ctctaataat atgaatccac agtattcatt cattatccat tgtccttgta acttctctct 240
 tcttgataaa tttctaccct tctatgctgg aatggctttg aaaatgtcat cgaaactgtt 300
 ctggtttgca aaaatatcca gaagagacag tgcctcaggc acactcagtt caagacggaa 360
 cttagggcca tcataatggt gaagaattgg tctaaaggaa tctttctcta gtggctcaca 420
 aactttccta gtaatcactt gaacctgagc agggaaacga gattcaccag ggcacttctt 480
 gtccttccca agccgttgga tcaatattgg atcctccaaa acttgcagcc tcaaagatac 540
 catggagttt gtgagtggag taattggtcc acaaaaatgg ccaaccct 589

<210> 30742
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a06d1
 <400> 30742

ccaatgtaaa gctttgtact ttaaattaaa ttaaacaatag tacatctcaa cattgtttag 60
 ctcaaaatca gtttttttaa aaattcaa at ggccactgag atatctttta ttttgagcct 120
 gttaataata atttataagc caccaaacag ctatcatatt accactctat aagatagaac 180
 tccaagttct catgatcaag gaaaactgaa aacagactca agcaaaatca acacagatta 240
 acaccatcaa ccatcacaca cacacaagta tagcttggtg tcctaaactc gtaatcacia 300
 atgccctcag agaaaaaata tttagtcttc tttccccaac agagtggagaa ggaacttctt 360
 gtagtccctt gagatttctt tggcaatagc atgctcaaga agaacgctgt ttctcttgta 420
 gtaaacctct gagattatct ttaggtcctt ctgggccccg ctcacaacca 470

<210> 30743
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a08d1
 <400> 30743

gagccgagaa acaaccatca caatcatcaa aattcaagca gtaagtgaac ccctataatc 60
 tctccagttg gggggcaata tttggtacct tataatggct tggttacttt ctctacaaag 120
 gtggctctct ctttacaaca ttagggtaac aaaggttata tatagcaagg attaagacct 180
 atctttgaga ctcaaccgaa cggagaagga actggtcctg ctctgctag tgcattgat 240
 ctcttgatgc ttccattcc acagacgatg catccaggcg cagtcacggc tgaaaatttg 300
 gctccacaga gatcaciaaac attatatccg atggttgaca gcctgcttaa ggtggcagaa 360
 cagaattgag agggatcttc caaaggatca atggacttgt tagtcaaacc cctctgaaca 420
 cacaggtcaa tca 433

<210> 30744
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b01d1
 <400> 30744

agaccaagaa ctgcattgca tcatcaattt cttacctaaa tcatacgaaa gttttgcttg 60

aatatgttgt tctacagcta tgttcgctct acagctacat atatgaatgt atattcttac 120
 acatatgacc ttacactttt ttatctagac tgtaaaaaat aaattgaata tatagttttt 180
 gagagaaaaa gaaaaatatg tacaggtaca acagaaatta ggaatgcttc attcatcttt 240
 cattgcaagc tcatgcatct ttttctgccc gatttccaca agtagagtta agagagcctc 300
 acagacctga aatgcatctc cttcagaaag gtcatcattt agtgatgaat aaaccatcca 360
 tgcattggtcc aattttcggt taggtcgcac cacaacggat ccgggaactt ctgcatctcg 420
 gcatgtgaca agcccgtcac ttttctctcc atacctcacc tgcagcaact gtgcacaagc 480
 agccatagca gcaccaaggg gcatcaccac aggaagtttt ctagactcac cg 532

<210> 30745
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b02d1
 <400> 30745

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 tggcccaaac caatagtcaa gaaaagaaac aataaatata gtaccccatg taattcatct 120
 actttcaaaa caacctattg atagttgcaa catagttggg atatcaataa atgaaggcaa 180
 gtcagccaga aaataaaata gatcacgaaa tctaacacaa gatagatata ccagtatagt 240
 atagaaaaat agtactacat tgtagccaaa ttgtgtgtgt gtgtgtttgc actctacaca 300
 ttaaaaagaa ccttaatgag aagctgggtg caaagaagtt ctagtagagt gctcaaaagc 360
 attggcaagg ccttgcaaca ttctcaaaat ctcaattgtg tcttccaaat aatactttgc 420
 cttgctagga ttctggccaa cagtgcattg aaacacttca gcaactggag atagggttgc 480
 ctttgcattc atgattaccc caaacatgtc ctctgtgat ctgtcatctc caatgcatag 540
 aacaaaagct ggaaacactc ccttttg 567

<210> 30746
 <211> 565
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b03d1

<400> 30746

cataaaatca gatttcatat attataggat catctgtaac cccaactaca ccaccaagag 60
 gacaaagaac ttcacaaaac taaccctaaa accactctac ccaccacatt ctgacttgct 120
 accccctctc ttagccgtag cctttttcgc tggagacttt acactctttg gtttcacact 180
 cttcactggc gctttcttag caggcgctac tttcttcgct gccggcttcg cagcaggagc 240
 tgctttcttc cctggtgaag tccgtgtcga cgctcttgaa gccttggcgg gcttcgcttt 300
 gggctttgcc gcgggcttgg cagcagcagc ctttgtttta gcagcgggct tgggcttggg 360
 cttggcagct ggcttagtcc ctttgggctt ggcggcagca ggcttgggct tggaagcagc 420
 agcagcagca gcctttggtt taagggcggg cttgggcttg gctggaactt tggctttagg 480
 cttagcagct gccttgggct tagctggtgc ctttgactta attgccttag tgccttggc 540
 tatagcagcg ggcttgggct taagc 565

<210> 30747

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b04d1

<400> 30747

gggagcaatc tggggatatc aaatttcgta catcgggaca tacatcttac attaactatt 60
 ttttatatat aaaacaatgc tgccgatata acttacaaaa catatacact tccaagtta 120
 aaaaaaaaaa aaaaacaagc aaatcccata aaaatgtcag gccggatgaa aagaaaatta 180
 ggccatcttt tctgcaaagg atccatttgt taagacaatg aaggctatth tcctttcagc 240
 tggagggcag gaaaatcctg ggaagctcat gattggaccg atttgtcccc atttgtctgc 300
 tcagggattt taggaggagc tgtttttggt tccttatcca atttggggcg ttcttttggt 360
 ttgctagtgc cattgctggt gcgtccaatg accacgtcct tgttttttgg agggacaagg 420
 cttccatggt ttgg 434

<210> 30748

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b07d1

<400> 30748

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ggaacaaaaa aaaaggggac cctttctttt gggagaaaaa ttaattctt gattcaaaaa 60
ataggcaaaa atcccgggaa tcattcttat cccgaggaaa atcccgttg gtttttgcct 120
ctcatcaata agccacccaa tcaaaaaaaaa agcttgactc aatcaaaagg ccttaccccc 180
caaatttttt tttgaaaaaa agaacttgaa tagggcgggg gtgggcccaa cacaacccaa 240
cccacttttg aggcttactt taacaaaccc cattcatttg ggcattggtc tttttcctct 300
ccaacccaaa ctttttccaa agggggggga tgtccctttg gggctccata gactctttt 360
tagcaaccac taccttgcca tttttttcag cagggactgg cacactaggg ctgcttttga 420
ccctagcagg aaggaataa agcttatgca aaaccttt 458

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<210> 30749

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b09d1

<400> 30749

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actaggcgaa taatagaggt cctaattttt attgaaggta gtcatacata tttttttatg 60
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aggaaaggaa ggattcaaag gggaagggtt tcgaaatgat atccataaca ccgcaatccc 180
ctaaacgaca tgggaaagag aaaaaaaagg caaaaacgac accgaaagaa acgacacatt 240
cagagccacc gacacagaga taaaagccta gggtaacgt cgtctatcta agagagttga 300
ccacagtcgg cgacgacgac aggcttggcg gtctgcccgg agctggatcc gaccttctgt 360
atcttcttga cgacgtgcat cccctcgacg acctgtgcga acacgacgtg ctttccgtcg 420
agccactccg tcttcgttgt gcagatgaag aactgagat 459

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<210> 30750

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c01d1

<400> 30750

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aactcatgta accctgccaa taaaccatca cccctaaact ccagcaccag cagcttgctc 120
acttcaatac acaactccca gaattttctca tgtcaccacg tggcaagcac gctgatgtgg 180
agccaagtgt tgtgcttaca cgtaggtgta ccctgcataa tacaaccaa gacttaagca 240
tcatataata atattaataa agtaaaactaa agaaataaaa agaaaaaaaa aaaagaggct 300
tttcaacatg gcatggcaaa tggtagacct gatccccaca actaggacca tgttttaaacc 360
tggttttttc actcacactt gccatagggc taagcttcaa gtcttctcaa cagggaacct 420
ttactggggg t 431

<210> 30751

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c04d1

<400> 30751

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gatccagggt tagttcagat gaggagattt taagaacacc ataaaaatga cattttgaac 120
aataataaat aattacaaag aaattggcga tgctaataga tcaaaacagc tttaaacct 180
ctggttttct tgggtattct caactaaacc ttccactatc atatggacta agatgccctt 240
ggatagttgt ctcgtttctc aattcggtta acggcaatcc attgaatcaa aggagtctgc 300
aaaccctgca ggttttagagg agatgcttga ttgggtttgt gagatggaaa tgctattaaa 360
tattgaggaa gtgccttcgt tggcttgcca ccttcgtaga gcttgaggaa ggctcatatg 420
aaggtcaccg ccagaagccg cttcctcttt ttcatcatg 459

<210> 30752

<211> 543

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c05d1

<400> 30752

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 atcatgaaca aaactttctga gctacggcgt gcagctccta caataatata gtctgaaaat 120
 gagaaatgtc caacaggaac acaggtgcac aaaaacccaa ccctctgcgg ctctgtccca 180
 aagacaatga tgtgaaccac caaacaatt tttttactgg agaaaagaat aaggtaggtg 240
 ctctcttcat tacactttca gcgtttgaca aaattgctac aaaagaagcc tccaagcaat 300
 agaaggcata gagttcttct ggatgtcata tcctaaatgg agggttccct gagcaagatt 360
 ggtcaaaactt tgccctttta aacttcgatt tctcgacagc aattttcttg aaaagattag 420
 gccacacaaa gctatgcttg aagccctta tcttcttget cttgccttta tcatattctt 480
 gatcccatc atccccaaca tatccaatgc tgacagtttt gtcattcttt gacttcaaat 540
 gct 543

<210> 30753
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058c06d1
 <400> 30753

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 ggggtatttg ctaaaaacca cgggaaccct ttgggtttac aaaaaagggg aaaaaaaaaa 180
 ttcccgggcc ctcccgggca ttggggggag aaacccctt tcccaaaca agggggggcc 240
 cttggttagc caagggggga atataacca ccccaacccc aaaaaggggg ggctgatca 300
 aaagccctgg ggggaatatt tgaggaacct ggccccccc cgaaaacca aacttttatt 360
 ttgttcgggg gaaagggggg gttttaccct ccaaagcca agt 403

<210> 30754
 <211> 65
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058c07d1
 <400> 30754

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gactc 65

<210> 30755
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058c08d1

<400> 30755

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agagccacat aagaaagtac ctgcagttcc agccattttg actatatata taacaaacag 120
aacctgaaat atatacatgc aatgtactaa gatatgtaaa acctattaga taacatgtgt 180
gcatgatatg aacatgtttg agttcatgtg gaaacatgca gctttcaagg atgtgtattt 240
gcaatgtcac gtgagagcgg ggaagcagaa gcagtggcaa ttctaccatg ggtaaaatga 300
tcagcacttt ttctacgatt ttgtttcaca tgggggacct ggaactgctc caaatgcgtg 360
gcaacctcgg ccatggttgg tctcaacttt gattctattg tcaggcatcg caaagaggag 420
ggtagctacc ttacatgcct catctaattc atattggc 458

<210> 30756
<211> 426
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058d02d1

<400> 30756

aaggaagatc cattctaatt aattttaagc taggtaatta catgaaagta aagagtaaac 60
aaaagataaa ataaaaaggt ttggcattaa tatgtactta aggagccctt cacaaattaa 120
ttacaaagta atcaatgttc tcttctgttt ccttatacaa tactacgtat ataaattaat 180
tcagaacact gcataccttg gtccttgtgc caaataatga ttttctctat attgttgatc 240
caagaatgct ccataacaca attgaagatc atcaacacca tttgcagctt gatattccat 300
ttctacatgt tgcacatcc catatccata agggatccat gcattcatct tatcaaaggg 360
caaggaagag atcaattcca ggaacccaa tgatcaggga caccgactga cgcggggcga 420

tcttga

426

<210> 30757
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058d05d1

<400> 30757

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 cggccagaat ccgtaaagcc ttggtaggat tcatcgtatt gaattttcaa ctaaagcttg 180
 actaccacgt tctctgcatg gagtcttcat tgtattatat atagtcgtat ataattatat 240
 attcttatca attgagaccc ctgctaacaa caaattctca actcatggct catggaatgt 300
 tagaacttgc ccagtagaaa agggtagcag ccccccatc ttccagcaaa agaaacgaac 360
 taggcgcacc ctaaaacttg aagtctctct tctttgactt gccctccttt tcttgcattct 420
 ttcttttctt cttcttctcg ttctctgcaa ccatgtcact gaaatcttca cgctgactac 480
 gcaacttctc ttcttccctt 500

<210> 30758
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058d08d1

<400> 30758

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 atgattacta tactggaaca tatattttac actgctaaga ggtaggcattg gaagatgact 180
 acctctctta ttacttctt ctcccaaact gttttgcata tcatatgttt aacatttgct 240
 gctggcattg agaaataaat tcgtacaaac acaacattac ttcttatata gcaatccagg 300
 acgatagctt agctatttat ttccctttt gtcttttagag ctccaagact aagtaatcgg 360
 catctgtttt gatccagggc tccttattct cagatgaatc ttcttcacag ctgccaagga 420

gtggattggg ttggatctta tactgtcgca tgtaattttt cgttgacagt actgctcttt 480
 tgggctgcat 490

<210> 30759
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058e01d1

<400> 30759

gaatggaaaa aggcatatct ttaaattgaa ttgatggggg ggaaaacccc aatttaaaga 60
 tttccaatca tccccaatTT tgcaacaacc aaaagaattt taaaaaaaaa agactttttt 120
 tttttacttt ttttaccCAA aacctaagca aaatttAAAA acaaacgacc ctttttttta 180
 gactctttta atccaaaagc tgatcacaat caaaatcaat ggcgttattt atgaaagctc 240
 cataagactt caaacgacca aaagccgggt tctccattga tgttctcttc aaacatgaat 300
 ttactcttca atagcaaggg gcacaaactc agccaatttg cggtgcttga gagcataaaa 360
 catctggagg gaacctttgc tctcacgggg ttcaagattg gtcacgtgct tccagaagcc 420
 ataca 425

<210> 30760
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058e03d1

<400> 30760

acataacaga ttggccacaa atataattgt ttttccacta tgcccaagtc aatcaacaga 60
 tagaaaataa acagaagact aaattaagac gaaaaactca aacttaaaat ccaactatat 120
 ttttcagtat ttccacctt gcttctaccc ctgttgaaag taacaaagta aagctgctct 180
 gcaacaaagt agatctaaat ttacaagaca ggaaacgacc aacaaagtaa aataaaagaa 240
 agaaaaaaga aaaaaggcaa agagaaggat aaaccggaac aaaaaccaa agatataagc 300
 atcttaggca gaaaccctaa aacccaaaaa accctaggag taaagcctgt taggagctaa 360
 ccactgtaaa caaaaccaa tgagaagggg ttggtgctag cattctatga agtaactccg 420

cccagccaat ctcaatatac agatctttat cttcactagg caaccaatct ctatcttcag 480
actgcaagag aagagggcag aaagataaaa tca 513

<210> 30761
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e04d1

<400> 30761

cctcaacatg tttctgtttt ctagtcaatg gcagaaaacg atgtaccgat gctatggttc 60
caaaggtaaa agatatagaa tattaacatt ggcacttctt caaagattgc agaatacaaa 120
atcacacaaa aggaccaaca caggaaacct cagttggaga agatgaattt gaattttgac 180
tagtccgtag gcataaattc atccgggtga tccaatagat agttggctgc tagatcctcg 240
tttttattgc atgcaaagaa cgctccacc acaatatctc gatgaaatcc catagcttca 300
agccgttgaa tggcctcatt ctcttcaggg gtgatagtga cagtcccaga aatcatggaa 360
tccaactgac tctgtaaatt ctcgccccct tcagggttcat tcataaggte aagtatgtcc 420
tcttgatgat cttggatgat ctgcattagc tgaggatttt gttgtcccag ttcctgaatc 480
ataggctgca aaatttgggg gttttctcgc atcggtttt ttaatgcttg gaact 535

<210> 30762
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e06d1

<400> 30762

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gaaaaatagc atcacaccta tccaacaaca ggaattgttt ctgattgctt gtgggtcatga 120
tctgtctcct gttgtttttg accaactagt tgagaggaag ataacgacaa ttgtgagaga 180
ctacagcaat tatcctcccg ctctgctgc ttctgagatt ctttctcgta caaggcatac 240
tcttcaggct tatcccatct gctttcacaa gttatacagt tgtagtagta cttatcgcca 300
tcggggcagt agtggttact ccagtcacac tctggaaaat cttcatcttg gggacttgta 360

ggcatatccg gcagggtaat gccagtaact gtactagggg tgctttcggg ctgagaaggc 420
 agctgggaac gaacattaaa ctgagaaaac tattgtagtc tgtgaactaa gctgctgctc 480
 tatattttga actgatgaat ctgctggatg tga 513

<210> 30763
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058e07d1
 <400> 30763

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 tgggtttttta actaagacag gaacttgaaa tgattcaaac tgcattgacta cccagacctg 120
 gagtgggata acagcccaca cattttattta taccaagatt acattatttg gatatttgga 180
 ttgccaaaca catgggaatt acattttcat acatattcct taatggccac aggggcagtc 240
 cctgcaaggg cagttagggc cacacttgca cttcccatca tgctcagggtg gtggaacatc 300
 catgacaaca ggctcgatgt aacttttttc agtctttaca ataacaccat agctgtttcc 360
 cttggggcaa ctagtcttgt cagcgcaatc gcagttgccg catgtgttcc acatgtttgg 420
 ttttgaggaa aaaagccaaa cacaaggaat gaacctaatg ttttg 465

<210> 30764
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058e08d1
 <400> 30764

ggggccggga ttcatataat ttaaccttat aaataataat aacaataata agatgggctt 60
 tactttccct tttcaccatt atcaaccatt tttcacttgc catataacaa gagggtccta 120
 aacagaatca caaataatcc tacatcgggg ctgggatggg aaagcactat gaaactgaat 180
 cccaagggt aatacaatat aacatttatt taccattttg acagataccc agcactttta 240
 gcacttgcag catttggaat atcaatccgg tggtgcaggc ctaaaaatag tcttttttca 300
 catttattca taccctccc acataatcat tcagcaacgt gatgcatggc tccacttaaa 360

aagggcaaga atatgcatta caaagtcctg ggttggcgct tttatagggg aacaaggcaa 420
cagggcgagt 430

<210> 30765
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f01d1

<400> 30765

aaaagttaaa acaacttttag accgcaaaat tcaaaatcca gaagtggcta gtttttttgt 60
tcaccaaag cctcgtacaa aatcttaaca aatgaaaaca agtggctact cgccacaatg 120
ataaggcaaa tgtaacaaaa aaaaaaaaaac cagtaatata tgatatgtga aaaacaggta 180
accgatccta ataaatgctt ttaattgaag tttgcatcca atgtagatat gaagagggtat 240
atcgagacct cttttgcacc atccaaaaaa tttgccataa acagcagaag aattccttgt 300
aatggggggg atcatttcac agtcaagatc ttgatgatag atgcagtgcc cacacgatgc 360
agtgccacca ctgaatcccc gttgtggcag agacccttgg acttggcatg ttgcatggcg 420
aattctattg cttcttctgt tgtttcagca tgagaagctc tagcagaagc tgcactcaac 480
acggga 486

<210> 30766
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f02d1

<400> 30766

gggaaccgga ttttattatt ctttaaaaaa ccctccccca aaaagaatgc taaggaatga 60
tggtccaaag cgtaccgttt gggacaaaaa cgaaatccta tacactacgg attcggatac 120
ccgggtgcgt attaaaaacg ccccccttgg tcaaaactcc caaacaacca aaaaaaaaaa 180
accggccta caaaaactta cacgtgcaat ccaaaccag cggggaacaa aggggggggag 240
agcccccg acgtgggtcc cacgtgccga acaccaccat tggtgggggt ggtttcacgc 300
gaagaggttg caggagtccc agggaaatta gggttgaac ccgagagaac ccgaaaccct 360

tgtatatcat cttcgggtgag cccacaccttt ctcgtccttg cggaattgg aggggtcata 420
 atagcatttt caacc 435

<210> 30767
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058f07d1

<400> 30767

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 ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120
 ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180
 tcaactacac tatcccaaac cggtactctt aagactttga acttcacttg tactctagga 240
 tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300
 gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttgggtca 360
 ggtaactaag gatggtcgca actgggtgga atgagtggaa ttttcctca ttttcagctt 420
 taaactcgat tcgagtgctg agctcagcaa gaaggaccaa gtccaagata ataggagcag 480
 ctaacagtga atcctcacat gtgttggtgca acacaa 516

<210> 30768
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058f08d1

<400> 30768

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 aatttggtcg acgtaggcaa agcatacatc caaattcaga ggttaaggga attcaaaatt 120
 aaaaatatat tgctaattcc taaacaactt gttgctacaa aagactgatt attggggagg 180
 gggggaagat cgttggcttt tccaccctcc tgctgtcttg tccccatta tggcaaatac 240
 ttttccttct tggctttgcc tctccaagca ttgggacgat gtctctcatg gggggctctt 300
 ccttgggaag ctttgcagta catagaagtg caatccggag cacaagcagc atttcttctt 360

ggacatgctt gcactgacta gctatagcag gatccaatgc ttctaacaag gctttggtgc 420
 tttttcttctt ccttatccat tgcactatgt caattgattc ttcaaatagaa ggggggctaaa 480
 ggcatttttct cagttaggag ct 502

<210> 30769
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058g02d1

<400> 30769

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 aaaccccccta aaaggaacca accccggggg gttattatgc catattgatt aagggggggcc 120
 cgaacaaccc gaacaggaac gggaccccat tttgggtccc cccatggacc ccatgaccct 180
 taggttgaac ttttttaatt ggccttttcta tataaacctt tttttcaagg ggggggggggt 240
 tttttcccggt aattttttca aacctttgct ttaaagggggt aaaaaccctg ggctgggccc 300
 ttccaggagc catttggttt ttcccccccc tggctggggg ctattttttt tttttatgtt 360
 taaaatcctg ccccccatcc tttggtttga gttgttttta cccccctttt ttaactacct 420
 ccaaaaaaaaa atccccaaca gaaactctaa ccctgggtttt cctttgtacc ccccc 475

<210> 30770
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058g04d1

<400> 30770

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 actataacag cagaatggca aaaaattaca aaggaggctg aatgcatgtt gctggcctca 180
 acacttctga agcacatttg tacacaaggt agcttctctg tttattcaaa tccgtcagat 240
 cctctcagaa aaccccgatt ttctaattga ccaaataacc ctgtcaattc aattcctctc 300
 atctaaaatc atgaccatca ttctcgtgaa gttttgttct gcttgatcaa ggcataatgca 360

tcactgtata tagccacaac gtttgagaag actgcgagga ctatcataat gacacacaaa 420

atcttgtctg atttagttgc aatgtttag cggtccctaa gagtgatggc agctggaaaa 480

<210> 30771

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058h01d1

<400> 30771

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aaaagaaaga aagagaaaat agacaatata agtgtctaatt tcacatcact aaaatctgtc 120

cacccgctag taggccccgag acattaacac tagccagcgg tgacaacaat ctgaactaat 180

tgataattac atatttacia catttgacac caacacgcgt acgttgctac ctatctccag 240

gagttgaaga tcacgtaatt aaattgagac aagaagagta taatccatgt tgtgtatgta 300

acagtacaag agaagagtgg tggagtttga agttaattaa gaattggcta gcttatttat 360

caaagccaag gcattgctag tcaattgagc tacctgaata acgagtcttc tgacggtgct 420

tttaatatca gtggcagcag tgatctcttg gaagccatcg ttgcaggtgg tttcatccgt 480

caaagcggca ctcacccatg ttt 503

<210> 30772

<211> 562

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058h03d1

<400> 30772

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aacacaacta cacacaagat aacacgaaca aactgctact aaatgcagca ttggcacatc 120

taaaatgcac tgccaagatt catctagtgc atccatgatg caatgggtga cctcactttt 180

tcccatgtta gcataatccc actgtccttg tagcaaaccg aatgcttagg ctttgcattc 240

acttctctta ggtatgatgc ttgggtgcaa ctttgggggtg taacagtgcc ttataagcc 300

ttacaaagat agcttaagaa gttctcataa tcctcataga gtggttctcc atccacaact 360

acccaaggaa catacttgtg aggaggctcc agagcacttg ttccagctgc atattgtagc 420
 tccaactggt ttccatgttc actattataa cactgattaa taggttccga atcaagatcc 480
 agtttctcaa aacaagattt cccattcctc acgcttactc tgaaacacca gatcctcaac 540
 acagtagatg aaaggaaaat gt 562

<210> 30773
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h04d1

<400> 30773

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 aaggcaaagc taacaaaaaa aaaaaaaccc gtaatatatg atatgtgaaa aacaggtaac 180
 cgatcctaataaatgcttat aattgaagtt tgcattccaat gtagatatga agagggatat 240
 cgcgacctct tttgggcctt gcattatatg agacctagac aggaaactag ttccttgata 300
 tgggggggat cattttacag gcaagatgct tcatgatgga tgcattgccc acacgatgca 360
 gtgccaccac tgaatgcccg ttgaggcaga gacccttgga cttggcatgt cgcatggcga 420
 attctattgc ttcttctggt gtttcagcat gagaagctct agcagaagct gactcaaca 480
 cggggaacca accc 494

<210> 30774
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h07d1

<400> 30774

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 gtcagagcta ccgactagaa gaaaagggtt acacgtataa atcccagtca gtgtcggatg 180
 gtgagctcag ctctaagggtg aagtacacca ttgataaagt aaagactatc ttcagccatg 240

aacgttgtcc atggaattgc aaacaagttt ctatatccga cggcctttcc cccagtgaat 300
 acataattgc ctttgtactt gctaacaaat tcctctgttg gccttgacct agcagcaaac 360
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 caatggaaag agctctgttg gtccatgttg caatgtgctg ataagaaaaa cccttgtcca 480
 cctaaatgga atgcctgtga atatact 507

<210> 30775
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h08d1

<400> 30775
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 aatcaagatt caaatcatgc aaaagaaaaa aagtaaaagg cttttttttt ttcctttttt 120
 ttctctctct ggctcttata gaaagcttaa tcacaaaatt aaaatcatca gggacatatt 180
 atttatagaa ctcaagtaag acaaactcca aatgagaaac aaaaagccgg ttcctccatt 240
 tttttatcca actcttcata ctcaagttac tcaacagcaa ggggcacaga ctcgccaat 300
 ttgcggtact tgagagcata gaacatctcg agatagcggc ggctctcacg gcggtcaagg 360
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 atttgccatg tgtacttctc ttcaataccc tggagaccag cctttgagat tgtttcccag 480
 ggggttgggt caagc 495

<210> 30776
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a04d1

<400> 30776
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 tctaagtaca ataattttat aggacacggc caaatcattt tatgggggtg aaattgtagg 180

aattgttttg ggaattggaa aatgtaaaaa accgggcttt atcaaatttg ggggaagttt 240
 aggaataggt tttttgaaaa aaggctctgg cttaaaaaat gactttggct taagggatag 300
 gtttaacaat tggaaatggt ttaggtatgg gtttaaaaaac cggaatagga atagggttaa 360
 caataggaac aggctttggg attggcttaa aaaaaggaat tgggtgttgg actggcttaa 420
 aaattgggat tgg 433

<210> 30777
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a05d1

<400> 30777
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 aaactagaaa cctataatgt acaaatacacc ctcaaagccc aaaatgcagc aaatgaagaa 120
 ataacctgaa ttcaagcaca cctatagtcc catcaattca acaattctca tcaaagatac 180
 atataaacca cacagtttca acctcctcat gttcctctcc agaacatctg cttcctcaa 240
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 ttctgtcact tctgtggcca cctttgcctc ctgattgaac ttgtctcagt gtcttaggtg 360
 aatgcgaact aattttgcag ttagttgagg atggcagaga atgtcgccga gtatggttgt 420
 ttttttctact tccatcttgt ccaaatactcg gggatccttg tgccttcaac tctgcctttg 480
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<210> 30778
 <211> 539
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a06d1

<400> 30778
 atgaaaaggc agaacattca ggcagtcata ataatatgcg accaaaatac agacaaaaaa 60
 acagagtatt atactaataa taaaattcca aaatccagaa actagaaaaa acgaaatgta 120
 accctaagcc tcagccttct ggtaaacata ggtcaaacca cacttgccgc aatagtggcg 180

atcgaagtgg ttggccatga aagtcceggc gccgcactcg gcgttggggc attccttgcg 240
 gagcctctgg accttgccgg agtcgtcgac cttgtagaac tggaggaggg cgagcttgac 300
 tttcttgtgc ttgtgcttga tcttcttggg cttgggtgtag gtcttcttct tgcgcttctt 360
 ggcgccgccc cgaggcgga ggaagaggtg aagcgtggac tccttctgga tgtttagtc 420
 ggcgaggggtg cgccgtcct ccagctgctt accggcgaa atcaagcgt gctgggtccg 480
 cgggatgccc tacttgtcct ggatcttcgc cttcacattg tcgattgtgt ccgatgact 539

<210> 30779
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a08d1

<400> 30779
 ggaaaaata aaaagcccc ggctttgttt aataaaacgt ccaacatcac tggggcaaac 60
 tactcaagtc ctccccctgc accagcccaa ccaattaatg ttcccggtt atgcttgata 120
 atattgaaac tagtagctag agcgttgact ggtatccagt ttggggccaa tctttttgtt 180
 aataaaaaac acatcccttg gctttaaatt ccaattaaaa atatttttaa taataattta 240
 tagggggggc ctgtcttttg tcatggccct agacggtagg gaccctttgc cctgtaggga 300
 ccatcccttt agagggtggc cctttgggga tgccggccct ccctcccat aaatt 355

<210> 30780
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a09d1

<400> 30780
 atcaatcaaa ttacagttaa ataataataa tcccttacat atgaattctt tttggttcct 60
 ttttgcgaaa tcccatgcat atatgattta atgtaaagga taaatcacta acgaaaaagc 120
 taaaatacac tgctgtcact tctattcatt aataatcgat catgtatgtt ttattttacg 180
 ccacatgatg catttcctta tattagctta ccttccaacc aacgggtgta aaaatccaac 240
 gccttccgcy gcttatattc cggcacgggtg tgcccagctt ccttgattgt taggaaggtg 300

aggttgttct cgtacgcttg cgagtaccca ccaacttggga tatttgagtt ccatg 355

<210> 30781
<211> 336
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060a10d1

<400> 30781

ctgggaaaaa aaaagggggg gttaaccctt taaccacatt accccctttt ttttattttt 60
ccacaaaaaa cgggggggaa atatcccccc ttaaaaaggg gggggggcca caaaaaaaag 120
gggggggggg ggccccaaaa gggggcttcg gggccccccc ccccaaattt ttttttttgg 180
ggggggcccc ccccaaattg gggccccctt ccccgaaaaa cccctggggc tttgtgaaaa 240
attttctcgg ccgcccgggc caaatctcga gtttttcccc ccgggggtgcg ggcggatatt 300
tttttttttt gggggcccca aaataaaata acgggc 336

<210> 30782
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060a11d1

<400> 30782

gggggggaaa aaaaaatttt ttttgggggc ccccgggggg cccctcgtc ccgccccggg 60
gggagcaaaa gcctcttttc ccccccccc ataaaaaatt ggggggtaac cgcgggcaac 120
cgcggggggt tccccccca tctttaatcc ccccccccc ccccccggg ggtcccctgg 180
tctgggccag ggggggcccc cccccaccag ggaaaacccc ctcgggggcc tgggggggtc 240
tggaaccccc ggaagggttc caggcccaaa accaaacttt tcctttacc cccccaaaa 300
gggacaaggg ccccttgggg gaaaaaaggg ccggccccgc cttttcgggg gcaaattttg 360
ccccacaaac tttgttttgg gggagggggg ccctcccccc cggggccaaa aaaaaaaagg 420
ggggacccaa cgcggggggg gg 442

<210> 30783
<211> 397
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b03d1

<400> 30783

gaaaaacatt acatttgatt tgaattagaa acgaaatgga tatatataac cagtacaatt 60
 caaggtaaca cagcttaaca ggaagaacaa tgtaaacttc actatctcat ttatctgccg 120
 taaatattca acagtgcaga tcctctctaa ttattccctc agaaagaaac aacttcaacc 180
 ataggcaaca gcaaatcatt gacttggtt aacttagtga acttcagaaa aatctttcaa 240
 aacaaacgca ggctaataat ggtttttgtt ccattataaa ccaaactagc ttgcttgata 300
 gtgaactcag aaatcaagta aaatagcaag gggaaaaatc ctgaaacggg gccgttttgg 360
 aagaaaaata gataacctcg acaggatttt tttctac 397

<210> 30784

<211> 532

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400060b04d1

<400> 30784

gaaagattgt gaaaattacc ttttctttcc tttcattttg tcctttcttg agacattctc 60
 cttttaaaag gacgtttttc aagcctgatt ttacagaac tatagtacac acttagttac 120
 actctactct ctccacact ttttctataa accgtggatc attattatca agtcgccact 180
 gataaaattc caccacatc aaattgctgg agatacagat acccgagtct aagcctattc 240
 caacctccat ctctatttta ccttcccgac ctgacctgac gcatttgaaa aaccaggcaa 300
 gctattttgc cagccttggc atgagcttcc acgtggcaca atctcttact atgttggatg 360
 ccaagcattt gtcttaacacc aatgcaatct gcttcagcta ttcctctggt cacttgcgca 420
 accaacagcc acaggaatgc attgtgatga acaaatataa gggaagccat ttcatttgag 480
 atttctgtag tttctacaag acacgngca gtcacacaag ttaactggaa ac 532

<210> 30785

<211> 288

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b06d1

<400> 30785

gtgttcatat gcttatatcc ttaatggtgc tttactccca caaaacccaa tgggactgaa 60
 cggggatgac ctcaaactta aaacggagcg aggtaatatt acccccccat aaaaaaagct 120
 aaagagggggg ttggcttcaa gaaaacctaa cgggacatcc caaagaaaca ggggggaaca 180
 aatgggggacc ggtggcaaaa aaataagggc cgggggaagg aacaaaattc cccggaaggg 240
 taagggcccc ctttggcgaa aaaaaaaaaa acccccccg gcttgcta 288

<210> 30786

<211> 445

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b07d1

<400> 30786

gacagcaaaa aataactctg atgttttacc ataatcaaga aattcataca ttgtatgttg 60
 cttgctccca acgagtactc aaattaggag ggtttaaaaa atggtgcat cgacggcaat 120
 gaataaaaac ggcactttga tttgtaataa ccagttcagt tacatctgaa acagaatgct 180
 ctaatgacat tataacttgt aaattgttaa tatggatggg aatattctgc tctacaattc 240
 aagggctgca aaggttcttt aaatcctcct ccttagcata ccaatttggt attattttgg 300
 aaacatgagg ataaagatcc ttgtaggagt tcctaattgt tccttctgca acgcctgtgg 360
 caagtgatat atctttgaga ggctttttat catcagaaag ctgagttatg atgtatataa 420
 ctgctgcagc aattgatatg ggact 445

<210> 30787

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b08d1

<400> 30787

cgtcacagac acaacttcat taaaaaccca aaacaaaaaa ataataataa ctgctcttaa 60
 gcaaggcaac tcttgcgtat aatatgcaa ggtctcagcc cgaatataaa cctttactcg 120

ataacatata attgccgatt cctcgagag gatgcaggaa ttttgaaaga tgaaatgata 180
 attgacagca aagaatgaaa actcttgctt gcattggata tgaaaaacta tacacaaatt 240
 tatggatgag aatggaagct gtccaaaaaa acaaaagggt cgagtcactc agtgtcgagc 300
 cgcaacttgt tgcttacata ctgggcagaa atttttttgt gcaaccatt gttttataca 360
 ctgaaagtga taactgggct cac 383

<210> 30788
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060b09d1

<400> 30788

aacaagcgtc acccaattgc taacaacttt attcatatga taagatttgt caaatcaaaa 60
 catcattagc aaaataacca aaccatatgt gcaagctttg gctcctcttc aaagcaaatt 120
 caaaagaggt ttaaagaga aaccctaacc ctaatcctaa tagcacaaca caacaaagca 180
 attgatatat taaagattga ttcaatcgag ggccttgacg atctttatcc ccattgcttgt 240

<210> 30789
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c03d1

<400> 30789

cttccttatt tttcatcttt aaaccaaaca cttctcccg ggggggaaaa accccctct 60
 ttctttttcc tacgccaaaa aaaaccacgg ggaccccccc ccccccccc cctaccctat 120
 aacaaaaaaa ggccccgccc cctcccgac ccccccccc aaatcttata ggggggagaac 180
 ccctcccccc ccccggtca ccacaacgaa aaggcccaaa aataaaattc taaaaacccc 240
 ccctatgggg ggggggccc ctttaaaaaa acccccccc cccctcgggg ggggggcgtt 300
 tatataagaa aggatatctt tcccacaccc caacaaacac acctttttta agaaaaaat 360
 ttggggcaaa aaaacacaaa aggggcccc caaaaatcc cccccaaaa aaaaaacaac 420
 atccccgcgc tcccacacac acccgggggg ggcgccctc aacagaggcc ccccccaac 480

aggggggggg cccccccc

498

<210> 30790
<211> 375
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060c04d1

<400> 30790

caccatcctt aaagaacagt tatttcttta ttatattgaa tggcaaatat ttgccattg 60
cgttatccag aatcattgtc taaaagctac tactgagaac caacaaatca catcctcgag 120
atctgaagag gtataagagt ttcaagcatt tcatgcctaa cagaagctag agatagcttt 180
tccacgtggc ctagtttttc taaaagatag ctctcacaat tttctgcagc catgacccca 240
gctgagtaag ctccatgcac agatccctga ttgtccaagc ttacagcttc tccccaaaag 300
aatagattgc ccaaaggtgc acgaagcttg tcatacacat cgagtgggtt tccaactaaa 360
tcatacgagt aacat 375

<210> 30791
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060c05d1

<400> 30791

cgaaaaagtt catttatgct ttaaagtgtt ttgcttctta gcagaagacc ctctcactta 60
cataagctaa caaaaatttg aaaacaggaa gaatcaataa aactataaac ataggataaa 120
tttgcaaaag agaaaaaaaa atgaataaat tctatatagt agtaggaaag tagtttttgt 180
actgccagaa tctagaaatt agtgatttgt gatggttcgg gcacgaaaat tgaaacgcca 240
tagcaagatt ttggagcaat cttctggttg aattcccttt aatttagcct catcttctag 300
aactacttgc ttcacgaact tgattgaatt ctgagaagtg tcttgaacag aggaagtgcg 360
accccatctc tcagggtccc aaaggatgga gctattaaaa gcaaaacttg aaatatgaat 420
tgggggagtg attgtatcag tttcattgtt catattccta agatgccaac caatgacttg 480
tgatgaatca catacaggtc cttcga 506

<210> 30792
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c06d1

<400> 30792

agcaaagaag aatagaaaca ggtcaggaat tcatctccaa gctatgtaca atttatctaa 60
 atccaactag agctatgaat gacaatatga tccccctcat actgatataa cttagaatgg 120
 tgtcacacat gacaactgat acatttgctg caaagagatt agattattca ctattcagca 180
 cacttcattt ttgttgaggg ttcagcatag caatccctct taagttaact gcaacaatta 240
 aggataata ataataataa taaacaacta aactcataca ccacaaagct aatgcaattc 300
 gaatctacct taacctagtt atccctccct cggtcattca ctgccactat tattgatatg 360
 aatgctgttg ctattgctgg aggagccatg gtggttggtg ctaggggttac caccttt 417

<210> 30793
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c07d1

<400> 30793

gaaagcaagg ttttcacacc aaaggatctg attcattaaa agcaatagat tcttcacaac 60
 cacacaccac tcacttgaca tatatggaac acatacataa tccatatagc attacttagt 120
 ggtggggcat ttcttacttt tatttaatgc acaaacataa caagggcagg aaggaaaacc 180
 aaaaaattaa aacgaagatc atatagctgt taataataac aacaacacat gcaacataaa 240
 aaccacatgc agttgtggta gtggcatctt cttcagattg gaaacgcctc aatgatggaa 300
 gggagagcgt tgatcttgat gatgttgtaa cgcgcgaaac cggtttcctt gaacagccac 360
 ttccagttct cttcggctct ctctttgcca cggcggttgt gagcgagaag catcatgtcg 420
 aatgcgatgc caacgtctgt gaagagttcg ttgccttcgg gtcgagaacg tgatccacat 480
 tatgac 486

<210> 30794
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c08d1

<400> 30794

acttctaaag gggaaaatcc aaaaggctat ttctactcta aaaatgcaaa attttatatt 60
 tatgaaagaa taatacatcc atatgtttca acatatcttc ctccaaataa acttatgaca 120
 agcaaaatct gtaaagacga gagatgatgg cttaacaac taaagttacg gagtatataa 180
 cggacttggtg ttgtgtcact cattcttggc agaagcagcc tgctttgctc caacagaaaa 240
 gaattcagag atgacttcaa ggggcatgcc ctttgtttct ggaaccttca aaaacacaaa 300
 tatccacgag atgaaacaaa caactgcgta aatggcgaat acaccaccaa gtcctaaaga 360
 gcccgatc acaggcagcg agtatgtgat gatgatgtct tcaatccaga acactaatgc 420
 acagatagca atgcagagggc cacgcaccct agtggggaaa atctctgag 469

<210> 30795
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c10d1

<400> 30795

gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60
 gtacattgca ataacatata cttcaccaaa cacaatcta aaaactctca aaagtccaca 120
 agtcatcctt ttctttcatg ctcaattgcc ggggacgaag ttggtggcgt agggccaggc 180
 attgttggtg actgggtccg caaggggatc aacaagggtc tccaatggac ccttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
 ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
 gctgccacca gggtagattg ggtcagtgc ctcaccgagg ggcccaccag caatacgata 420
 accctcaaca gcaccatta ggataacttg ggtggcccag atggcgagga tgctctgggc 480
 gt 482

00220"ETFE560

<210> 30796
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060d05d1

<400> 30796

gggtgtggaac gatgagaaag agggatgcca ttcctaatagc gatgccttga tcacatttga 60
ggacaatttt ttacagcaaa catacacaaa ccccgatatag tgcattaagc gatatatattg 120
ttaatatata cattttttgt agtatgtacg gctacttaag gatcacgagc ctgaaaagta 180
atgacaaaac ataatatataa gcatgaaata tattccacgc ttatgcctgt taagtattgc 240
actaagcaat gcaacactag agatgatcca actcagcggg ctttctttcg tacagcattt 300
ggatcagaca tcatgtccat catcattttc tcagggtgaat cctcccaact cgcaaagtgc 360
ttcaagtcaa cttttcttct ttgctcagtg aaaagctctt ctctcttctt gtaagagttc 420
tgcacttcct ttgctacttt cccaccaagt cccccaactt caacttcaga aatcagaccc 480
ttgacaggaa ggaaaccctg atct 504

<210> 30797
<211> 361
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060d09d1

<400> 30797

ataaaaaaaaa aatgatcttt ttttatattt ccagggtataa ccaactaaac tgagtatggc 60
ccatagtacc ttacaactta ttgacatggg gcttattcaa agacattttt accccctact 120
agaccaatga acatcggaca agaagtacaa actttctatt agatccaatt accatccctt 180
ttcttaattc catccaagaa ctcaaaaggg tgtcctctcc tgtgatctac tgggctcgaa 240
caggacagat gctacttcct gtagatcttt cgaagatgct tccttgggtgc tggaacctct 300
gacctaccaa cagaacatcc ccacctctc tggagtacta gcacatgcct tccatttgggt 360
g 361

<210> 30798
<211> 494

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d10d1

<400> 30798

aaaccataaa cagtttataa aacttcgtta taaattaaat gcaacttaaa acatccctca 60
 gcagcaaagg aaatggacta aaaccctata gctgcttggtg aaattcgaaa tatctcagac 120
 tcttcttacc atcaaaacaa aaaacagtac tcatcaaaaa caaacagcaa tgaaaattga 180
 ccaccgccga tcaagaacct agttttgaaa gttacggcta catgaaatcg gcagaaactt 240
 aaaaatataa cttaaacaaa acacctaaga ctctgcaagg ataaaactac tataaaggag 300
 taaccacgat gatgatcaca tgtgctagca aaattgccca aatgcaatca cttcttcttg 360
 gcagcggcct tgggtgacctt ggctccggtg gggctcttct tctcaact tttgatgact 420
 ccgacagcca ccgtttgacg cctgtccctt acagccaaaa cgaccaggg gaggatactc 480
 agagaaagtt tcaa 494

<210> 30799
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d11d1

<400> 30799

aaaaacaagc attaatgggg ttattttact cataactcaag tttcggcaac atataaagga 60
 tttttgggcc taggcctcct tagttaccaa aagaaaaaaa aaccttaaag ggccaaggaa 120
 aacaagaaag ggtcataaca aaacgtagcc cccatgggag atatgtggaa aaattgcaca 180
 aaaactctct ttatatcatt ttaattagga ggaaaatcgg ttatgcatat gctagtcttg 240
 aggactatg ttcttgctga tggaaaaagc acattttttc ctgccccaaa aggaacattg 300
 atctcaatac tgtcaaaaat gtctgacct gattttgtac cgcccttaat tggcaattcg 360
 gggccctcac tgtttccttc gctgggtttg gtgttcagct tggctttgct ttttcccat 420
 accacagggg aaagtccact cacaatgata atagctccaa tacacttccc atataaactt 480
 gc 482

<210> 30800
 <211> 453
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060e03d1

<400> 30800

gatgattaaa ctgagcaatg aagatgagac cgctcaatct ttcactaata actgcaagag 60
 taaattaaaa ctctcgcaaa acattgatat cgttacaacc actgatccaa gtgaccctta 120
 ttttagaata cagttacacg cacaagtgca caacacaaga ccataggtaa aaacataaat 180
 ggcatgaaca atgagtcaaa gcaatggcag aacaataata ttaacgccac caccacttgt 240
 aacagtgcac tcagttcctc tgcagtagca gagaaattag acatagcccc tgctcttcaa 300
 actctccact gcacccctga tgatttgctc aacaggagtg aattctagac ctaaataaat 360
 cagcttcttt gatgcattct ttcacttgc tctcaacaac cctgggtggg tctcctttgg 420
 caacttagcc acatcgtatt caggggtataa ctc 453

<210> 30801
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060e06d1

<400> 30801

gcctgtcctt tttttttttt tttttttttt tttttttttt attttctttt ttatttattg 60
 tttggggttt ttttttatta tttttttttt actcccaata tttttttttt agattcttcc 120
 gggaaaaaaaa acgccccaaa tcataaatta aggaaattct taccatcga taattaaatt 180
 tgatgggaat tatgatgtag cagtagcaca cgtttgacca ttaaaatcaa aataccaggg 240
 caaagtttca agtaacttaa gacagaacgt ccaaaaaaac tagataaaat gagtagattg 300
 ctcgggacct taaggcactt agcacttgac ctcctttaag gcatatgcaa agtacaggaa 360
 tgttggatca gcagcgcc 378

<210> 30802
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400060e07d1

<400> 30802

aaaaggaaat gtaaatcagt aaatacatat ggatgatggg catttgaaat caagctgggg 60
gatgatttta tcacaccatc tgttctgtta tgaaaaacta ttctaatttc ttgcgattaa 120
acgattttga tctaatagatg agaatagatat tgcttccttg tttcccatc atcaacaact 180
gacagacacc tgcagcatat aacaaaacca tatgtatata tggacatcac agacatcttg 240
ggagaaatga tgatcatatga aacactacta tactacacaa gtttgacatt attctcgctt 300
atcttcctca agatcttctc cgaaggcgtg atcaatggcc ttccgatcaa gcttggctgc 360
cacatcccca cttatcttcg ctacactgct tgatcagagag ataccctnct catcaaagtc 420
atctcccggt tcctccatgt atgcatatct agtaggggtc cgtgatggag cccaaagaat 480
gcatatcacc accaagagag catatgaaag cagacacccg aaagct 526

<210> 30803
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060e08d1

<400> 30803

ggggagtgtt ctttttcctt tacattttgc taacttttat ttgtaatctg gtagaatcaa 60
tttaactttt ttcatatgat aaatccgcga aagagaaaaa ccagtgggta cacgcatat 120
aggaccagga aagtatcttt tgggccgcga caatctaaaa attaggaggag cgcatcccc 180
cgggcctaac agaaaaaccc cataccaga ccttagagcg accccgcgga ggacaccctt 240
ttaattcacc ctgaatatat agaaatactc gcctcacaaa ctgcatgaa tcatgggacg 300
acgcccggac agaggaagtg cccccccctc ttccgggccc caaaggaggg gggttc 356

<210> 30804
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060e10d1

<400> 30804

acccaaaattg ctaacatatg ttccccggcaa attgctcttt cagccgtcag agtccagtg 60
 accaaaattg caggcaaaac cacaaataat agatggggaa gaaccaccac cataatatct 120
 ggagacccaa catactcaac ctcccccttt ccattagaag tctctatggc ccaaccata 180
 taggtcatgt ataccatatt tttcccttca gtaaaaactt gccccataaa ccagggaac 240
 aatgtaagat aaaataggta tcctagccaa ccaaaccata atttggggat cctgcagagc 300
 tcctggagaa accataatac accatcttact aagcctttat tggcaatgaa attcttgtaa 360
 gtgtatatct tctttggaaa aacaaggaga gcttttgaa gaagaaggaa tatgaacaaa 420
 aagttaagag ccgacaaaaa taatgggtaa taaagggaag cccattgaca ttccatgacc 480
 aaaaact 487

<210> 30805

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f06d1

<400> 30805

acggagcaca tattaagaca tatttcacat tattactagt tcataaacga atataactaag 60
 cataaacaaa tccaattcca aaatttgaga aacttggaac acaacaacat aacataaacc 120
 tatcaacacc acgcgcaact tttgattacc ggtacattaa tcggaactca acccataaaa 180
 atgaagcaat atactctcca ttttctaata taggggccca ataacaataa taataatggg 240
 aaatgtctcc ctcaatttca caccatctct gcaaaaggag agtgaaattt caagggacca 300
 aaattacagg gcagaagggg caggtgctga tgcaataatg gcctctgaca cgtcagaaac 360
 agggccaggg gcagctcctg agtcacaag ttcaaccatg gcacgacgag ggttgggtctt 420
 gtgcttttca cacagttctg gcaaaaatac cccctctcca gca 463

<210> 30806

<211> 313

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f09d1

<400> 30806

ataactatga tgtgaaacac accggtgggc aacgcatagg atgtccgcat atgacactta 60
cattcactgc catgtcaatt ggcattgcctt ctcagaacac tcccaaatta cacaaaaaat 120
tgcgacctga aaattcacat gcatacagge tttgccgatg tgaaaaataa agaagtggag 180
tctaaataac aatcaccccc atgatataat cattatataa caaaatccac cttctgaggc 240
tatgatcaac catgcatggc gatctacctt ggggctgggt ccttcacttt cttactacac 300
attctataca ttt 313

<210> 30807

<211> 438

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f10d1

<400> 30807

acgaagcaaa taacttaagt aaaatacatg atgaaccgga gaaaacagtc ccaaaagaaa 60
ataaaaatta taattacccg tcagggttaa aaaaaattgg agattaatat cgttacttgg 120
cactttacag cagaaggaca ctcatcaagc cgtaattgca cctacctagt cacacagatt 180
gaataaatta cctagggagt ttgatcggca acaagggtga attttcattc aacttgatcc 240
tttcgtgatt gtaagaactg aacttaaagt gattaataaa attgaaaacg aattattatt 300
tttccttcta agcctgcttc aagtccttga gtttttctgc tttaagcata ctcaggattg 360
agtgctaag cttccctgta gatcatctct tttatttgct cttcatccaa ttggtgggtgc 420
tcaaaacaaa tgaaaatg 438

<210> 30808

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f11d1

<400> 30808

gagggaggaa atataacata atttatgctt ggatccttgt actggagtat aaaaattctt 60
gaaaagataa gacactacaa aaatctgacc acgtctaagc caatgaacac tgcatactag 120

gtactcaggt gctatgattt ctacttaaga agcaacaggg acctcaatat tggttgccaa 180
 aacagcagca ggacgggcat attcttcctc ttccttagga gtgtggattg tgacaagatc 240
 aggaagggga gttttaggac cctgtttccc tttaggatcc caatcaagca tgatcttaac 300
 cttgatacca agaacaccct gtcttaggag gacatgtctc actgcagagt caatgtaatc 360
 cttgactggt tgtccagaag agatcatgta cccatccttg aatttcattg atttggtctc 420
 ctgagccctc aacttttcac taacaatcac ctcaaaccc ttggcaccac tttccatcac 480
 aaa 483

<210> 30809
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060g03d1
 <400> 30809

accatatata tatagagaga gagaatacga agcacactga tcacaggatg atgctctctt 60
 taagtaggga agcagatctt atcagtacac ataggtagggt tgaaattcta gctctagcaa 120
 tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180
 aatctcattc tcatgggtgt caagatgcat ggactaatta agcaacaatg ttggtctgat 240
 aggcagtgtc cacagataaa ttgggtaccc ataaaatggc cttgcttcca aggaaatggc 300
 aaacagggtt agttccagga tcaactcca taagttgatg aagcatttga tgattcattc 360
 cagaagtatt tgagtggcaa atagcaagtg cctgagtttt gggtccatca ccagccacca 420
 atggaaccat gaaagctggt gtttcacgga cttcatggca ggaaaatact gcagttctga 480
 aatttagcct atgacacatc act 503

<210> 30810
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060g04d1
 <400> 30810

atggaaatcc agatctatac ttccaactgt attcagaaac ataaattgaa gcaataacaa 60

agctcaatct ccaactcaca tatacaagta aaagaaggca caaagtgaca gtgctcactt 120
 ctcaacaaca caacaacaaa agaaaaaaag agactagttt tgtttttcat catcatgtta 180
 ttatatctaa aacaccaagc tcgaaaacca cgtactatat attcaaattcc atatatgtaa 240
 attttaatca cgtaattaaa tcaaaccaaa actgaaaaaa agtgaaaaga taaagaaagt 300
 cagagattaa acccatatat atatatagag agagagagat cgagagagag agagaaaggt 360
 gcaagggtgaa gatataataa ccagtataca ggtaatttg cttgatctag caaacaatcg 420
 gaccacaacg cttcaattcc ccgagaagag agaagaaagt agcatgcctg agactcttgg 480
 aagaagaaga catatcacc cttgaataaa aagtagtata gatatgaatt aacgggagcg 540
 ggaatagggg tt 552

<210> 30811
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g06d1

<400> 30811

ccagtgaaaa ggctttaaga ttctattata taatatgaag acaactatct aattgtcata 60
 tatacattag atgcttgggc aacctatact actcataaac tcaacattag atgcttgaga 120
 aagagaaagt ctcaaccatc acaatatttg cagagtaaa aaacaatgtt cgtgaaggtc 180
 atatttgcta tatctaagac aatgacgtta cagctagaag ggacttacac tgcacagaa 240
 atgaacgtac atgacgtgat gttagatatt ttttttaagc catgctgtac ttgatccagg 300
 agacttcctt cgcaggttca acaaaaagaa catcaaccac attatgtaca ttgcaacggg 360
 ttagatgtca atagtagaac agcacattac ggctggatat tgga 404

<210> 30812
 <211> 489
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g07d1

<400> 30812

gaaacatgaa ttaagcacia aagacgtgga taacttgata ttattttatt acatacatgc 60

atagatagcc tgctctcaaa taagtcggca ggaacaaaga tagagagatt caacgatctt 120
 caaatttcac atttgccaga aatatataac agaaaagagg ggtatgggat atgagttaag 180
 ttttgatcac attcaactac actatcccaa accgttactc ttaagacttt gaacttcact 240
 tgtactctag gatcatgttg ttctcaggag ctaatccaac acaagccctc aggatgtttt 300
 ccagcatagc tcgctgcttt gacaacgcat tcaccactgg tgtaccgggt ggaaccagag 360
 gggccttggg caggtaaacta aagatggctg caactgggtg gaatgagtgg aattttccct 420
 cattttcagc tttaaactcg attcgagtgc tgagctcagc aagaaggacc aagtccaaga 480
 taataggag 489

<210> 30813
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g08d1

<400> 30813

gattcaacct tttttccttt tattagaagt gtatcccgat ttgactcttt gtgtagcaag 60
 caaaciaaacc ctttgtgtcc attctcttgt taaaaatgct aatctaaaga atcacaaaca 120
 aaaagggaga caaaaaagaa gaagaatgca acatccatta tggccaccat tgttcttaag 180
 ttctagtctt tgcagctctt catgtataag tgaacatgtg cgtgcaattg taggcttgct 240
 tcttcatttt cattgaactg ctgagactga cagaaccctt tcccattcca gaataaagca 300
 tatagtgcac gaagatacaa ctttaagaaag gaatgactga gccgaggcag cttcagcaac 360
 ggaatcaact atctctaagt ctcagacatc catccatgca tgtgcaagaa aactccctca 420
 tgttgggttg ccaggaacac gtgaagaaaa atgcttttgg gattagaact aatattagct 480
 taaaaa 486

<210> 30814
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g09d1

<400> 30814

ggcggggtag caatthttggg cgatecattc ccgcggggaa ataaacaaac ttcacattga 60
 tctcattaat gataaatcca tgcccccagg gaaacaaatt taaacctagc ttattaatta 120
 ctttacaata actcgtactg acgacaaact ggthttattht tcatgatcat tttgatacat 180
 aactthttctt tacatgatac ataatcaagg gttattacca thttthttta aactaaaaat 240
 cttgattatg taaatthttag tctgcatgac catacccatg tacctagggg tatggaatga 300
 tcatgtttac ggccacatca atctggthta aaatggthtt caattgatcc cagaagaggg 360
 gaattaatth tathttgtgg accgtgagca ggtaagccag gaattagcag accaaccac 420
 ctg 423

<210> 30815
 <211> 298
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g10d1

<400> 30815

ggggcaaaaa cttatthtcat tgttcaagta aaaacgggga aaagtcctt taaaaaaaaa 60
 gagaaaaatt aaatcgcaat aaaaacctaa tgacccctg gtatthtaac ttcaaaaggg 120
 gctthtgaaa aatcaaaaac aaccctgaa aatthtttgc ttaatcgact tcccaatth 180
 tggggccaac accccttcca ctgccagctg cgggaccatc cttatthcatg gttccccccg 240
 gattaccacc aacaccctgg aacatthttg ctatgatggg attacaaatg ctctccaa 298

<210> 30816
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400060h03d1

<400> 30816

atacccaaat aataactctg gtgcacaaat atatataaca tcaaatcaaa agaaatctth 60
 caaatccatc tacgtacctg gctacatcca ataccatata caatatatat accccatccc 120
 caactthtct aatcctataa ttaatattaa gctaacttaa atctctgcaa gtatagthct 180
 atatgctact attcaatgth tacaggagc tagcatcccc tcccatgcca ggaattccag 240

tataaccagaa tcacggtaca atatttcata attagtgact gcatgcatgt gtatatatat 300
 gtaaatgaaa ataacataaa cctctcctt ttcttttctt ggtgctgcta gcgaagttaa 360
 ttagccaagt ctagagaaac actcatcaga actctaagat ttctctcata aattatccaa 420
 tattggttta gctagctagc tagccatcag ttcttacttt ctaggccacg aaatctggta 480
 ataactgatg agcaacanac ctctttct 508

<210> 30817
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060h05d1
 <400> 30817

aataaagaaa tatatatata tatatatata tatatatata tatatatata tatatgctca 60
 aataattttg taaaatgatt ataataaaa ataaataatt tataacaacat tataagtata 120
 aagttctgcc aagatgcac caagtgacca aatatcaatc ttcttgatgat atagaagcca 180
 caaaataacc tttttgtcct ataggagcat gataagactt ggactgaaca tacgagcaaa 240
 ggggctctgt ctcaaaatag ctacttccca gatcaacgac cttaacctca catctgtgct 300
 atagctttta accaaaatat tctccggctt caagtcacaa tgtattatta gtccaagact 360
 gcaaaaactg aagtgcttcc aaacactgaa tggtaatcga atgatggctg tgtcaccaga 420
 cgtgtgtttg ctaaaccatc tttttctcct ttttgg 456

<210> 30818
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060h08d1
 <400> 30818

accaaacatt tatatatata tatatatata aaaaaaaggg aaccatgacc ttaacacacc 60
 catcacaagt ccaaaacact tgaacttgct caagggcaag aaatgaccac tttattctaa 120
 ggggtgtttgt ttagacacaa aacaccagag ggcaacataa tacatactac ataattttga 180
 agttttgaaa ctacatatag gttttatcat tattttctaag ggccatttct gcttgaagct 240

ttagctctcc aacacctcac ttgcaagtgc aggggttgca ggtgcaatta gctccacatt 300
 tgcagccatc gttctcagcg ggaacaccca tttcagcact ctcgaattga gccttaactg 360
 gtgccactcc catgaccaag gtctcggggg g 391

<210> 30819
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060h09d1

<400> 30819

aaaattataa gcggagattc ataattcaga ttagccgaac ttatacaga agcgaccaat 60
 ttccaaacat ttaaaaaaaaa aaaaaaagaa gcccccttgg gcttaacaca cccatcacia 120
 ggccaaaaca cttgaacttg ctgaaagggg agacatgacc actttatttt aagggtgggt 180
 ggttaacaca aaacaccaga ggggccgaaa accatcacag acataatata taagttttta 240
 gctaccatt aataggttat cattattcct aaataagggc tatctttggt tgaagcttgg 300
 tctccaaca ccttacttgc aagtgcaggg gttgcaggag caatttggtc cacatttgca 360
 gccattgttt ttagggggca caccatttc agcacctca aatt 404

<210> 30820
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060h11d1

<400> 30820

catgttaaac cgatgcaaat tcattacagc ttattctcac aagttacgtg ggagaacgtt 60
 cagttacttt acattagaca ttagctttct acacgtgttt tggtaaataat tgaactacat 120
 cacttacaaa aacaaaaaga actacaaaat ttaaggattg aaaacttagc aggacactaa 180
 cacaagcaac tgtaaaacaa actacaaact caaaccacta aatctattca ccagctatcc 240
 ataaattttt ctacctaaag gcatttagat gatggcttta cagtactgct tgcataatc 300
 tgggtgtgaca agttttcctt caaacattca aactagtcaa tccattcacc agccatagat 360
 aggattttct acctgtggag gcaagagatg aaggctctta cagtgtgct tatcgtagtc 420

acgtgtccca gggattgctc ctgtacataa tctcagaaat tcattcccag tgagacaata 480
gtgagcaaat 490

<210> 30821
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061a10d1

<400> 30821

acaataatct catccttatt cataaagctg actcaaggga aatctttaga caaggagaaa 60
ggaaggattt cttctactgg agtactagtg caagtagcaa gaacaaccta tatcttggga 120
caaaaccagc ttgtacaatt acctttcaaa tttcctccaa ttagaagaat tggaaaaatt 180
cctcacagaa tgcaatgcag atgtgtccag ataaaataca cctcagttat ggcattacat 240
ttaggagcaa aagattgtgc agacaatcct taaacaattc atatgcacaa actgtaatac 300
caaattaact gttgttaaag ttcgtttatg ttttacagat tataaaaaatg tgtaacactt 360
aatggagtcc atataaaact gaaatgagtc ccattaacag ttgcataccg ttgggtcaaaa 420
gcatctaaag ataacaaaag gcaccggggg ggataaaaac a 461

<210> 30822
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061a11d1

<400> 30822

aaaaagaaac ccaaccttgt catatacttg ggggaagagg gcaacaaatt ttacatagaa 60
gacatggggg gggccagaga aaataaagag atgcatttat atgactctgg ggttatTTTT 120
gattttgcaa attaaattac acaatcacag ccggacatta cacatgagtt gggcctTTTT 180
caacttaaaa gcagaggata acattggccc atgacgcgac acatgcacca cctaataatc 240
ataattttac atctttacat acaaaataca aagactttta attttaaaaa gaagaaaaga 300
ggtaaaccgc tcttcttaat gaaatgaaac caaaaccac aaacattggc ttgatttttg 360
ttgttgttgt tgttcccaac ttgattaac atgaaccgtt tgattgaatc acttggac 418

<210> 30823
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061b10d1

<400> 30823

acggcaaaca aatggaattc tattacatta tgaattacaa gttccttgca tggcatacat 60
 caaggaaaac tgggaagttg ttgtatgtgg attgatttgc cacagcctta tatagacaaa 120
 ccaaattgctt aatatcaaca caaacacgtg tacagaaaag aaaccactct tcaagaaaac 180
 agaaaataag aaaaactaac atattggaag aggtgcccca ttccactccc caaggcattc 240
 caaaagtgga tcaatgatct tcccttggca caaagcagtg aacactttgt cacactcttc 300
 acccggtgag ataacccttt caccagttag caatgctgtc cccaactcct ctctcacaaa 360
 cttgtacaag gggtaagacc tgcattcctt gatcttgttt ggaattgcac attggtcatt 420
 ctcatatgca actcttgcac cttccacttc ctttaggcaa ag 462

<210> 30824
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061b11d1

<400> 30824

ataaatcaat atttattaaa tgatgggagt aaaaaaagta tccttgcctt ttacatcaat 60
 ttgcagacct agtgttgtac ccaaaaattt gcagacctag tgttacaata agataaacat 120
 ttcagaattt gacctccact cataataaga catgatactt tttcatgctt agcttttatc 180
 caccaccagc ttctaacttt gatgaattcc accaccctt tatgatccgg atgaattgaa 240
 caagttattc ttaaacttgg tcagcagtga tctcaaatca tatattgata atgggggtgct 300
 aattatcatg cagcagacta atacgagtag caagactacc gcatattaat catcatttgt 360
 tataaatatt gcttgtggca caaaaaatca actcaagtaa ggatgggtca atctgtacaa 420
 actacaaagt cccccaactg tggaagagag gagaatctaa tatctatcat taaggactac 480
 catatacaac ctaggatata cagcttcttc tgtttgactc aactttga 528

002220-ETFE50

<210> 30825
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061c09d1

<400> 30825

tcgcgatcta ggccgccctt tttttttttt ttttttcttt ttaacaatat gaaaataaca 60
ctacattacc aaactaaaac cactgcagaa ggcaatgttt gtgaacacac aacagagctt 120
ctggacggga aaaagttccc cagccacaca aatcttggtt taaaaaaaga aaatatttat 180
tataaaacgt taataacatt cgatggcaag ttcacatca cggaacccat cagctacaga 240
taatgaccga gttgttttta ctattctgca gcactagcag cactaagatc cacactgagg 300
tcaataacct ttccagttat caatgtatac atgttgagaa cgatcatccac agtcgaatga 360
tagtgagtac tagcattata acttgacgat ataaagcagt tgtccaaagt ggggtcgttg 420
actgggtcat atttgtcata ggtatcaaaa gatatctcat caactgggtcc tagaaggtta 480
atttcaggtt ttagtttaat tgccggctg 509

<210> 30826
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061c10d1

<400> 30826

actggaacc caaaatttta acttggttagc gacagaaaag tacacgagat ctccatcatc 60
aatcaattca aacttaactc ggaagaaaag aaaaaaaaaa aaaaaagaac aaaatcccgg 120
gcaaaagttg ccattttaag acttacatcc acaacaaga aacaatgatt gccacgggca 180
tgataaaacc tttaactgtc tttctattca aactcactgc attcgaagca tcaaccgatg 240
aaccgatga cccagatgaa gcatcagcag cccctgcccg gacatttttt tccggcttgg 300
atggcgcagg agcctccgcc ggtgcagcag ccggtgccgt cgcgccgaaa agcttcatag 360
gaagaagcac cttatccacc tgatacactg agagctgagt atcactgtag atagtattgg 420
aactgggtgt atcaaccacc ccagttgtta cattcacttg gtcacctgag ggggtcacat 480

ttaaaggata ctctccatca tcaact

505

<210> 30827
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061c11d1

<400> 30827

accataaat tagaaaggcg aaaccacctaa acaaacccaa ttgttttggg ggaaatttgc 60
ccccggcgat aaaaaggaca acccgatttg gggaaggggg ggcaattttt taaacttttt 120
ttttaatttc ggaaatctcg gaaagaaaaa aaattggggc cccaaccaac gccttattaa 180
ggggggggta cactgggacc ctgaatgggg ttttcccaat aaaaaaactt tgaaccgggg 240
gctttttttg catttgggct tccatgttgt tgggttcacc cgggtaaaca acgcagggtc 300
gggtccaacca actccctttg gccttaaagg cacaaacctt tttttttggg gtatggggca 360
aaaacacatt taa 373

<210> 30828
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061d09d1

<400> 30828

ctaagaaaaa tctaaaactt cactaacttg tacatttccc agcgtactca cgggtgagct 60
tacacaggct gacatgcaca cagaaccaca tgaaatagac aaaaaaaca gagaaaataa 120
ttaaataaat gccatggcaa tattgcatga ctttgtatac aaggcatgtc agaaaattat 180
ccagtctgaa caagtaaacc aacattgtcc ctcttagtac aattatgttg tccttggcct 240
ttggtataca gcaacaactt gatgaaagag aaacgaaaga gaattccttc actacatcga 300
tcttctcaac ttgtttttat tcatgcatga gttatgcaat tccttgggtcc ttggggacct 360
tagtgattaa atatatatta actaactatc tgcacacttg aatccatcag gtgggggtcct 420
gccacagtca atgagaagct gaagagcaat agggatgatg atgttgatgt tgagaatcct 480
agccctaata gttgtgcaga gacacactgc agcatccaag gccacaagcc ctgcaagcac 540

0022ED-ETTESD

tggacaacat gt

552

<210> 30829

<211> 391

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400061d10d1

<400> 30829

gggaaaaaga caaatgtaaa ttttttttta ttaatagaga tgcttaaatt ttgagatagt 60

tgtggctagc taactaaact agctttacga agtagccacc aaacgaggct cactccaatt 120

taaaaattcg tggttgtcgt ggtcaccacc ttctttgcac cttttgagcc tttcgtactt 180

tcccatgaga atgacataaa tcttcacata cccacatgca aaacatggct catctggttc 240

ttgttactac cgggtctcga actatgttta ctgttggtct tattcggaag cgacttatac 300

ttgaccacct atgacggtac cacagactct atgattgaca aggtggactt ttttcatcaa 360

cgttatcgta tggaaattct ggagctgaat a 391

<210> 30830

<211> 596

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400061d11d1

<400> 30830

atatggcaac aaatcaaact gttttaaata aaatgaaatt cgcaaagaaa aaagaaacaa 60

acattttatt gggaaagaaa aacagatgtg tttgtgatct atactataat gggaagggtca 120

ccaaaagaag tcatttgcac ctttacacaa ccatcaagca gatcgtattt tcgttttaaa 180

cattttacaa attggtcttg ggtttgacac ttccagttcc agctacgcgc cttgtcactg 240

accacatggt taaaaattct tctgcagccg atgggtgtat tcccaccgtg ctatcaaact 300

gtgccttggt agtccacac ttcaacgcaa cagcaatacc ctgcataatt tcagggtgcat 360

cagggtccaca cattgagggt tcgagaacct tatctgtctc agcatcaaca acaagcttca 420

taacagtttt ttcttgcgc ccagagatgg tattttttat aagattgaag gttgatgtaa 480

00222ED-ETTESD

aaaccaacag atccccattg gtttgctcta ttgctgctc ctactgaga ccaactacag 540
aaagtgggtg aatgctgaac actgcatang gaatattact gtagtctggc ttgatg 596

<210> 30831
<211> 606
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061d12c1

<400> 30831

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caacataaaa cggacacata ataaacaata gaaggattat ggcagcttag tatgagattc 180
tatccagtcc catatgcctt cagttctcgc ttccaataca ccatgttcga agaggaacac 240
tggtactgcc taggttctgc tcttacattt ttcaacagcc ctgggagcta gaccaatggc 300
atcagaactc ttcgatgcc tcagcctctt gcatgtttca ataaacatct cccagggaac 360
atcaccaca agcatccaat cgccctctct gtctcatat gtaagaacat attctgatcc 420
atgaagaagg tccttcagct tggtttcatt cagcatctcc ctgcccagaa ttccatgaga 480
tccacattta cctgaaatca taccaaaaaca agcagtaact ggatccaggc agactgttca 540
tacataaata attgaaaggt caaagttttt cacataaaac taattctttc ttactcatag 600
taaaac 606

<210> 30832
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061e09d1

<400> 30832

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gcaatcaatg gccatattct acagaaaaac accaacgaat atcaatttaa cccatttaca 180
aaacacctct ctaacagcaa aggattttat ggatgttatt ttccagcctc caatcttcaa 240

ccaagcagaa gtttcaaagg aacaatcttc atgtatcatt tggaaataca caattttctt 300
acaataatgt ataaataatg aggggcacca cactctcaaa ctatatctca ggattaagat 360
tttgtgaggc caccaggctt tttgtaagcc atattgctgt ttctctggat gatacagata 420
cagcatcttc ttcaaaggt ctcagcacag cagcaagctc ttcaagcttt ccttgctgaa 480
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<210> 30833
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<223> Clone ID: jC-gmst02400061e10d1

<400> 30833

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ttcaagccag cttattcttc cagcaggtgt caggaaactgt ttcttgtgct tcttttcaag 180
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agccttgctt caatagagct ttctccattt ctctgccttc aggggtcatga tcaatctcat 360
gaaccacagg attcacacca agttcttgaa acagaatggt gactgcatag cagaggcaac 420
aagagctctt tgtgaaaatc accacaccct tttcagaagc caacctgctc accttgcca 480
tcctgatata ccactgatca agcaccctgt gatcttctaa atatatatat 530

<210> 30834
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061e11d1

<400> 30834

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tttgataaaa atcacatcac cagagcttcg aatggtttca ttgtggttgt gacctcatat 120
aaaacttctt acttcttagc atgtcagggt tagtcagtgt aatggtttat gcaaataaac 180

ttggaataaa ctagcaaccc agcccataac acatgaccaa ccctaatatg ctaacaagac 240
 caaaacataa tattcggttt tcaccttaat ggtcattaga tgctcttctg gagaaacgga 300
 catacgtcac cagatacaga ttctgaaagc agcttccaaa gcttctgcaa ttgaatatac 360
 cctccgtata agcaaaccce agcaggaaag tatgcaagct acaatatata atcagaatta 420
 gaaaaccctg tagtcaggag taacctaaat ggcggacata ctcaaattag aagagaattt 480
 ggtctcacgg actaagactt taaagaaaga attaaactga ag 522

<210> 30835
 <211> 558
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061e12d1

<400> 30835

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 aggagcaatt tcagacataa aaacactaga atatcaatac tatggtcact actctactaa 120
 ttcaagccag cttattcttc cagcaggtgt caggaactgt ttcttgtgct tcttttcaag 180
 acaaagcctg gtaaggtttc agcatctgag tgagtgaacc acttaggtgg agggacatga 240
 tttcattggt ggatcccatt agcttccctc ctatgaatac agctggaact ggagcagtgc 300
 agccttgctt caatagagct ttctccattt ctctgccttc agggatcatga tcaatctcat 360
 gaaccacagg attcacacca agttcttgaa acagaatggt gactgcatag cagaggcaac 420
 aagagctctt tgtgaaaatc accacaccct tttcagaagc caacctcgtc accttgtcca 480
 tcttgatata ccactgatca agcaccctgt gatcttctaa atatatatat gtacaagaat 540
 tctggtcctt agacttaa 558

<210> 30836
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061f11d1

<400> 30836

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aataatacag taaaagtcac tcagaaaaaa acaagagaaa ttaaaatgta aagcaacagt 120
acagtagcaa gccaatatag cttgatgcga ttattcttta atccgtagac atcctataac 180
cgagagcaga aagcaaatac gccgagtcta acttctatga aggaaagaac atgagaatgg 240
tgtagccaat agtgcaaaaa ttctccaaat taaaagaagt caacaccttt agttagtatt 300
tgtagtcctt gacatggaga gactcggagg caccctcagc aagggttagca tcacctttgt 360
aagttcccaa agttgcatgt gagtttgcac tgcacct 397

<210> 30837
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061f12d1

<400> 30837

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tgtttatcga ccagaagttt ctgccacaaa aagagcatct ccctgggacc ttggtaatgg 120
gaaaccacat aaccatcctt acaaccttcg agataaactc tgatctcatt ctcatagcaa 180
acttctagac ctctcttctt catgactgcg atccagattc ccattgcaac gtcttcaaatt 240
ggttatgtct gaattttcttg gacatcgctc tcgtgatatc aactgagacc acataaccgg 300
gaccatgtgc ccaaggagga taagttcctt gctccattcc tgtagggttt tctgatttgg 360
atccaacaaa tccatgattg gctcattgta tatctgcaaa aacaaacttt gtgccaaaag 420
gactaaacta aaattgttaa gtaggtcagg gacacaaaaa gaaacaattt agagacaatc 480
aaccttaaga aaagagcagt ggcactgata gctg 514

<210> 30838
<211> 465
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061g10d1

<400> 30838

gaggaaaaga aagaaagcac atgtattatc tcaatgggga atatgaaaaa aatctgatca 60
atcagggtaa cacaaacctg acatcaacga caaacagatt tcaaactttt gaattgaaac 120

accatcccgaa taaacctac ccctcccaga atggaagaca cttattcact gtttctccat 180
 ttatgccctt tgtgccgaac tttgagtga acaattaagt gccgagcggt atgattgcac 240
 ctaatccttg ctctttattc cacataccat gaaccctggc atgccaaagt gggcttaaaa 300
 cttctcgaca tcagctgtgc gatcttcctt ggcctcgggt gttgcgaggt ccttggtgag 360
 accctcgttg agttagccat gctccttctg gagctccagg gtgagagtca cagcacgggg 420
 aaggaactca ccaatctgct caaaggcctt ttcaaccaa cccct 465

<210> 30839
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061h12d1

<400> 30839
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 ttaaaactgg aacctgcaac aacctttatg ccagggaagt tggctgacac atgcatcata 120
 acaatccaca aagacaaaaa taccatctca gttaatacaa caacttgaca catattgaga 180
 aggtgagtga cttgacaact gctgcaacat agaagacgac aagactgact gtcagacacc 240
 caaactgagc aatgcttgat gacaactctg gaccttctca accctcaaac atgtcctagt 300
 actcactgat catcttgatc tgcagctggg gaaggagatt tttcagactc ggttggtctg 360
 taagcaccac aattctgtct gttgcacttg gttctgaaag gatagtttat gttg 414

<210> 30840
 <211> 457
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062a03d1

<400> 30840
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 catcatcatg aattgacatt caactctaata taatccactc tacaatggca caatccataa 120
 tttttgtccc attattatat acatcaatca aatgaatgca ttacacaacc aaccacactt 180
 atgtcccata ataggcttcc ttaaagccaa agcaatgaac aattcaaaga accatccaaa 240

gctcaaaaga agcatttgc t tgcacatcaat caccacgcta tgtgttggt tctggatctg 300
gagattggaa aatacgttga gccaacatt gaaagggctt caagagttga gcccttttct 360
tgcgccagaa ccaaattggca gcattgtagt tttcattgcg aatcttctga gtggctgctc 420
tccaatcata cttctccatc tccaaacgtg cagcttc 457

<210> 30841
<211> 256
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062a07d1

<400> 30841

gtggagagta gagaagaaga cgacgagtca aggaaactaa caatcacaga gacataaatg 60
gatgtccgat ttcaattgct gcaatgcaat tacaagctct ttgtaccccc attataaaac 120
tatacccggtt ttcttaaaat aaaattgaag acaacatttt gatttactat atagttgtaa 180
ctgatcaaca aggtttggag ggacccatta attaaataag ccaaagcacc aaaaggggat 240
tgaagtgaca aacaac 256

<210> 30842
<211> 428
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062a08d1

<400> 30842

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tgaaccgctg acacatacca ttacaaagct acaaatataa cttcttttca tactactaca 120
tatataactt gaaacttggga gacttacatg caatgcctta aacatttagc tcactatctt 180
ctactaaata gtttagcaata aacttttagc aatgccaaaa cccaacccat atcaaatacc 240
aattcccaaa taggagtaac tttgcaatgc caattcgaca cgatttttat tattgtaccc 300
acaagtcagt aaaattttta acctaagaac cacttattat tttgtttttg gtgcaaagct 360
tacgagcaac accaagcctt gagttgggca cgttgaaaag cacacggggg ttttgctggt 420
gcatgttg 428

<210> 30843
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062a11d1

<400> 30843

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 gatgtacaag gcaaaatttg ccctgtcact tctcattggg taatatactt ttaagaagag 120
 atggaagatt gatttattat ttatcacatg aactaagatt ccataaaaaa ttacagatac 180
 acaaggcaaa atttgtcctc gtttctcatg ggctaataa cttttacaag gaataactaac 240
 aacactttct ctaacatact ctttcttatt cactctctac tattgattaa aatttataag 300
 aaactacaag atcacgaata cggatcatta aataagtagt gatgatccat aaattattgc 360
 aatttccaat aaactttaac taataatgaa aagtgtgtta aaaaaagtat gctagagtat 420
 gttactagca tttctcatc ctataataat acaaagtttg gggcttcaag aatctgcaag 480
 ttctataagt tgattgacca catttggat 509

<210> 30844
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400062a12d1

<400> 30844

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 aagtaaaaag tagagaagaa aacaaaccag tgataaatac tttgttccca agaactacag 120
 aaaatgagga tgaatttcaa taacaacgat caaggctaca aaaacatcca cccaagacta 180
 tcgaagtaga ttattacagg acagggcata gcacaatcgt ttgatgatga tgcagcaaag 240
 ccaaattctt tgatcaaaca gtacatcact taaattaaat ttccttcaag tgaaggacaa 300
 ttaacataaa cctcaagcag agagtcataa tgctcttccc tgcttcttcg cgaaacataa 360
 ggatgcatta tttcatcatc tggcagatat ctcgctcctt cttcagacat ctaaactcga 420
 cgaatatgta atacagttgc acaattcttg aaaaaaggcc aaatctgatg atgatccaaa 480

acagaagact gngaggaatc ttgaagctac actacatgca gtttttta

528

<210> 30845

<211> 206

<212> DNA

<213> Glycine max -

<223> Clone ID: jC-gmst02400062b01d1

<400> 30845

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accttcaaca ctaccacaat accacggttt actgggccga aaaacaagga cagatgccta 120

acgtccttag gaaactcact ctattacata agccaaaaat aatacatgaa tgagtcataa 180

ccaacagcaa aaaatatcac tgacca 206

<210> 30846

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b02d1

<400> 30846

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tctaacttaa cgaaacaaac tcaacctgaa aactgtatca aagccagtg agaaaataac 120

aatccatcat cactacgtaa actccaaaat ataaacctta agaaacaagg ttgtcattaa 180

gagataacga aacaaactca acctgaaatc tgtatcaaag ccagtgacaga aaataacaat 240

ccatcatcac taagtaaact ccaaaatata aaccttaaga aacaagggtg tcattaagag 300

ataaggaagc cagctgatca gcagtaccgc cagcctgctg ctgagcaaca ttccttagga 360

cgctcattgc ctcagccacc tttgctttca gggcttctg cgactcaagc aaatgcagaa 420

cttcagtctg gtccatctca agaagcatgc ctgtcactct ggcagcatta tcaggctcta 480

actgttcac aagggggtag agattctcac ccagca 516

<210> 30847

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b03d1

<400> 30847

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atataaaaaag tatataaaaa aaaaaactta caaacagctt aaatagccag aacatttgga  180
tttactccaa gcaattaagg tcaacaacac aaaggtgaat tggatcatca catcttctat  240
gacacagtat caatcgcacc cctttacaac cttcatacaa gtgagctcaa taaaaaaca  300
ccggttaaag tccccgtaa ctggaaaagg ttcattcatc attgccagca taaccacaaa  360
gtgcaacaac attccaatcc ctcttctaac ttttgataa ttcatgaaag cacaacagaa  420
acatgggttag tattatatca cccaatcaa attaaaactc catgcaaaga agttgccgtt  480
attagacatt gaagaccttt ttcagcctac aaagtcatgc aacagttgtc ctccatga   538
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<210> 30848

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b04d1

<400> 30848

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acaacatcca tgaaatccaa tcattaataa ttggaaaacc aaaccaaacc aaaccaaacc  120
aaacttattc caacaccact catcaaacag aaaaacaatc caaactttca aaactcacia  180
actcaagaac aacttgaaat tactactaac aaaaacaaga ccaattgggtc aaaaaccatg  240
aatcttgatc tggtccttcc tgacaaggcc agcctgaacg aggaagtggg agacgttctt  300
acgctggtcg ccttggagtt ggatgatctt gccaaagctcc ttgtcctgca ccacggttcc  360
gttgcagcag aactccttct tgaggtcctt gaggatcttc tcgtagctga actccttctt  420
cagcccttgc actgtggtea gactcttctt cccattcctc tgctgaattc gaatatgcac  480
atactccttt gctccggggg ca                                           502
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<210> 30849

<211> 553

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062b08d1

<400> 30849

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ttaaccact tttgtaattc tcaaaggaat caccatcaag cccatccaac aattctttca 120
ggccatttaa gaagttttca attctacttt gcaagtaaac tgggtggtac tcagatgact 180
gaacgcagaa acaaaacca gagatacgat atgttactcg tgggctgcat tcaacaacat 240
aaccaagctg ctcttttgtc ctcaagttgat tgaaaaatgg ctctccaca atttcatcaa 300
aaagatcaat taaagctttc aatttgattg accccagacc aaaatcttgc tcaatttgaa 360
aataaagctc aaccaccgag tttttttccg acttattctt cacattgaca tctctaacta 420
aattggcact ggatgggagg caaataacac gctcagcatg cctcaattca atgggagtgg 480
attaactgga aaattcatct taaatatttt tgctatgcc aatgcctctt cttttgacag 540
atttccatgg caa 553

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<210> 30850
 <211> 351
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062b09d1

<400> 30850

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tttcgcaccc ccataaaaga aagggttttg ggggtacaaa aaaaaccccc cccctatttt 120
tttcgggggg aaaaaaaaaa agggggcccc cccccccca aaaaaaaagg gccctaaaa 180
aaaaaatttc ccccgtcat ctaaatacaa agggccccgt tttttttcc ccaaaaaaaaa 240
aaaccccggt tttttaaaaa aaccggggcc ccccccccc ccccttcc cggggtccc 300
ccgctaaaaa aaaaatttac ccccaaaaac cccttttttt tcccaaagg g 351

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<210> 30851
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062b12d1

<400> 30851

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 agagtaacaa agcatggtga gacacagcta ccgaagctac taaaaacaag ggacagagca 120
 aacaagtagg ataactaggg agcagagaag tagtagcaat taaagcaaac aagaaaaata 180
 gacactcaac taacaaaacc taataacccc aaatcaagat ggacctaatg ggaatagaat 240
 tctcatcaaa acttatctgc cctgtccctc ttctctttat atgcttttca aatttaggtt 300
 atggttgga tggctctcac ttggccatca tgactttgac aaactcctca tagttgatct 360
 gtccatcacc gtcaacatcg gcctcacgga tcattctatc cacctcctcg tccgtcagct 420
 tctccccaag atttgtcatg acatggcgga gctcagctgc agagatgaaa ccattctgat 480
 ccttgtcaaa cacacggaaa gccttcttaa gctcct 516

<210> 30852

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062c01d1

<400> 30852

aaactgaaat atactcttgc taaataatct ccattaacca aaagcaaata catacttgta 60
 cacattggat gtacaaaaaa aagttattta catcatagtg gttatcactg aaatactatg 120
 tttggtcagg cattaaaaga aactcattat tgggattgag caggagatgc tgatgtttct 180
 ccagtcttct cttgaagcaa cggcatggtg ttgaccttt caacgtttga tacttgatgt 240
 tcaactgtctt catcaaatct atccacacta tgcaaaaata ttcttgacat aatatacaag 300
 aatcacgaca catgttcaaa aaacttctca aacgtttctg agaattagac atttatgatt 360
 tgattatgat tatagaaatt caatactaca tcttgaagat aactagatag tagacaagct 420
 aattttcatg tagccgagta acatccatca cagggtataat ttgcttttgt tttaatcttt 480
 aagttgggtt ggacattatt taaaggggtgc tttattt 517

<210> 30853

<211> 379

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062c03d1
 <400> 30853

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 ggccaacctg ttcacctgag gtggacacgt tcgggcactt cccgctcaac aatattccag 120
 acgttgcgag aacagctact gttgcagtgg gctctaacca atcggctgag aaaacacaag 180
 gctgggggtac gagtgggtctt atgcaccctc cgccctgaga cgacaggctt tttccccctt 240
 ggccccgagg agctctcagc gatagaggtc aatggcatta atgccaaaaa aacggacccg 300
 gaccctcttt ggggggtgggc gcaggcccac cagcctcgga gttttgggat aatgggttgg 360
 actacgaggg ggaggagag 379

<210> 30854
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062c05d1
 <400> 30854

cgcccccttt tnnntttttt tnnntttatt tattttatat tatttttnnt ttgtttttat 60
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 attttaattt gttattcttt tgaattcccc tccaacaat cgggcgctaa ttaaaaattt 180
 tttccgcccg ccacacaagag ggggacagtg acaatataag aaaaaacccc caggaaaact 240
 actggcctaa ccgttcacca cccaagcgg gggcaaataa aatatgggaa aaaaaaaacc 300
 cccaattcca gaaggggggtc ttaaaaaaaaa acccccggat aagtgttcgc aaccaaggg 360
 aaaaaaaagg aaaccccccc cccgcttttg gggggaaaaa aaaaaccccc cccccgggaa 420
 ggaggaggaa aaaaaacttc ctggggggcc gccccccc 459

<210> 30855
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062c09d1

<400> 30855

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 attacagacc cattaacat caaaggtctt caaatgtttt gggaacacat ccaacattac 180
 acaacgagct taaaaccccc cacggagacg gaggacaagg tgaaggggtg attccttctg 240
 gatgtttag tcagcgaggg tccttccatc ctcgagctgc ttgccagcaa aaatcaacct 300
 ttgctggtcc ggggggatgc cttccttggc ctgaatcttg gccttcacat tgtcaatgg 360
 gtcagagctc tccacctcga gggtaatagt cttaccgta agagtcttca cgaaaatctg 420
 cataccacca cgaagacgca acaccaagtg gagaggtgac tccttctgga t 471

<210> 30856

<211> 303

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062c10d1

<400> 30856

ccacaaaaac caaaaccggc aaattccctt gcctttttta ttttaggggt tccaaaattc 60
 caggaaatgg ttttttcatt ttttgggtt acctaccaa aagcagttaa aaataacatt 120
 tcttaaccaa actcaaccag gaatgacttt ttaggcaa atgattttg gggctttttg 180
 gggacccttg gggtaaacc tgggaccctt accatcgga ggtaactttt ttgggggggg 240
 agagggaaat ttttttgccc cacccaaggt tttggagttt tttctttgaa aacctttact 300
 ccc 303

<210> 30857

<211> 331

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062d01d1

<400> 30857

aaccccggtg agagggcaaa gaaataaaaa tttgtcatta atcaaaagt gacagacaat 60

ggagcaatgg ggttactggg tacattttcc tttctaagga tcattttacc cccaccaca 120
 ataaaaccct tttgttctta aacaggagtg attataaacc ccatttttca tttgcatcgg 180
 gtcagaatth tccagcttca ggatgcaaaa tactcagggt ttctcaagca acagctctgc 240
 accttaaaaa catgtacact tatttgcaat gcttgcccc ccccccaaa taacgggttt 300
 cattatcaag agcccttttt tctgggacc g 331

<210> 30858
 <211> 523
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d02d1

<400> 30858

agtctgaaat cttcatgcaa gcatagttga tattgcaaac aatcttgac aatcaatgtt 60
 aattgctcgg ttaatatcag atgcaagaat aatattaca tataagcaca tttatgagcc 120
 actaactttc cctgaccaac aaaattagca tgctgatttg aattaattgt tggaacttgg 180
 aacatactca tttcttgaac agtctctctc tcaaggtagc acagtaaaaa cttccacatc 240
 tttcattgca gggctcttga ctgagtattt aaatgtccaa ccatggcagg caccagcatg 300
 ttcccccttt ttattgaggg caacaatggc tccccaaaaa tctggaaatt ttcttgctat 360
 tcgtgttatt gcatctttag cagcaagttt gggttccatt cccaacctca tactctccac 420
 aacttgatag catggaagga agcgcacat gatgtcacca tccccagttg cacaacatgc 480
 accaacttca tcaatggcat atgctgagga tccagcaatg gga 523

<210> 30859
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d03d1

<400> 30859

cctaccaaga aaacgaactt gaatacaaat atgaggctct tggtttttcc atggctagga 60
 ataaaatgaa gaaaagagtc ctgaaactag agttttggaa gaatatthtc ttttttactg 120
 ggatatcatc aaccccagag agagggtttc ttaccactcc ccctgaagct ctttagtaaa 180

acaatgaatg acaaaataat ggggggggaa aaatagatta tcattcgggt actttgcagc 240
 catccctcgc ttaagaatca ttacattccc tctccttgct ccacccaaaa aaattgacaa 300
 aaagaatacg ttgtgaaatt aaatacctat cacaagatgg aatgggtcaa atttgattag 360
 actacaagct gatccagctg tatttgctca agccaggctc ctagaacaga atgatcaaca 420
 gactcaactg gcggatttga ctttgattt gaacttggcc catcaacaga tgcaaoaggg 480
 gccagaacct gtcaactttc tttttt 506

<210> 30860
 <211> 485
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062d05d1
 <400> 30860

gagcataatg gtaatcagtt caattaatgc tgctaaaaaa gtagcattca aatgattaat 60
 cacacaaatg ttgcatatac atcgaaatat agcgcatata ttagtaccat catcttaatt 120
 aattaagcta aatgagaata aagaaaacta attaagcttg atttccatga attatgaagt 180
 cttcaagggc ttgcaaatac tgtcacggct agctagcaca cattttattc aggaataatg 240
 aagtatagca tcatgagcaa tcagccttag atttttttta gcagattgac tgctcatgat 300
 gttatatcat ttccatgaat ttacctctat gcatgctacc atatttatat gtatatgctg 360
 ccccatthgt aaaaaaactc ctaacgaaag cccctccta gggctggagc ccaataatct 420
 gctccattgt cacttccaac ttgcagtgtg catgacactg gcaccagaca caacccttta 480
 cttct 485

<210> 30861
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062d06d1
 <400> 30861

cccagaaatg gggttttaata ttataagcag agattcataa ttcagattag ccgaactttt 60
 tacagaagcg accaatttcc aaacttttaa aaaaaaaaaa aaggaagcac ccttgggctt 120

aacacaccca tcacaaggcc aaaacacttg aacttgggtga agggcaaaac atgaccactt 180
 tatttttaggg gggttgggtt aacacaaaac accaggggggc cggaaaacct tcccagacat 240
 aatacatagg tttttagctc cacattaaag ggttatcatt attcctaatt aagggttttt 300
 tttggttgaa gcttgctctc ccaacacctc acttgcaagt gcagggggtg caggaacaat 360
 ttggtccaca ttgagcga tcgttcttag ggggcacacc catttcagca cccttaaatg 420
 gggccttaac agggggccact cccatgaaca aggtcttggg gggggg 466

<210> 30862
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d07d1

<400> 30862

aaaagcaccg atataatccg atacatatac ttttccactg tacagaaaaa aactcaacat 60
 atttatttgt ttaataatac cttagaagca gttggcaaca aaacattact tgagtatcct 120
 tccagttctg ctttctatac aaagggtgtg ccttttctcc agaacaaaag gacaagaggc 180
 tcttgagcag gtaggtggtg gtggtagcca agtgtcacgg acacatgcaa catgtcactt 240
 atcagcattg attccaaata tcttgacctt gtgcatgtgg ggggaacttg caacaaccag 300
 cacaatcact gcaacagtgt tgaagagcag cattggattc tgatagtctg ttgtgtgtga 360
 ggctattaag tacagcacca aaggaacaac tgtgagaaac ttctgtttac gagtaagctg 420
 cttttcattg tctacctgct cccaccaagt caatctattg tagatccctt gatcctctgc 480
 aaatg 485

<210> 30863
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d08d1

<400> 30863

aatcacccat ataataatca agtttcatta tgtttcagac agggtaatca aaatggaggg 60
 tttctaagtc atgcaaatga ctgcaacaac aacaataaca gaaacaatgc tttagtcttc 120

attgataact cagaaaaagct ttgaaataaa aacaaattta ggcttgtcaa tacattaagt 180
 cctgctttat tctcgttggc tacattccgc aaaaggtgtc tagtcactca agatgaagtt 240
 tatactcttg atattattcc ttaacgaagg agaaacaaac actgaaacca aaataatgaa 300
 tgccccccca gtcaccagct gcaaggcacc attgcttcaa tgtgttgatc taccacctat 360
 gcaaaaaatg aaactagtat tacacgtctt tcccttgttt ggcaataaaa tttaagactc 420
 ctccactccc aaatattggg agtgagaagc tgccaggagg gctgcaccaa tgccagagcc 480
 atcattagca tgctcaatga caatggtc 508

<210> 30864
 <211> 568
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d09d1

<400> 30864

actaaaaaac cagcttataa cataagcttt aaagcctgta tgtgtccact aaaacacagt 60
 gaaaactgaa aagggttaaca tgatactgaa aacataaatc gacatgacat actaccaaact 120
 attgtctttc ttgagaaaact aaatccaacc aaaggacatg aaatcagaca tttaaaaata 180
 aatagtaaat caaaagcaga aataaactaa atttagtcta cttcctcaat ctttggcccc 240
 gcaccgcttc cagcagcagg aacatcatcg tccattgcac caccacgtc tggaccagca 300
 ccaccctggt acatcttggc aatgataggg ttgcagatgc tttccaactc cttcattttg 360
 tectcaaatt catctgcctc tccaagctgg ttgctgtcta gccactggat ggcttgctca 420
 atggcatect caatcttttt cttgtcagct gggtaagtt ttctccaat cttctcgtct 480
 ttaatggtat tcctcatggt gtatgagtag ttcttcaatg cattcttggc ctctaccttc 540
 ttcttgggct cttcatcttt tgatttga 568

<210> 30865
 <211> 408
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e02d1

<400> 30865

ataaaaacttc gttataaatt aaatgcaact taaaacatcc ctcagcagca aaggaaatgg 60
 actaaaaccc tatagctgct tgtgaaattc gaaatatctc agactcttct taccatcaaa 120
 acaaaaaaca gtactcatca aaaacaaaca gcaatgaaaa ttgaccaccg ccgatcaaga 180
 acctagtttt gaaagttacg gctacatgaa atcggcagaa acttaaaaaat ataacttaaa 240
 caaaacacct aagactctgc aaggataaaa ctactataaa ggagtaacca cgatgatgat 300
 cacatgtgct agcaaaattg cccaaatgca atcacttctt cttggcagcg gccttggtga 360
 ccttggtctcc ggtggggtct ttcttctcaa cactcttgat gactccca 408

<210> 30866
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e04d1

<400> 30866

aaaaaacggtt attaattact aattcactgc atatacatc caaaataaat aagtaataac 60
 tgattaagtt gcagttgata tggatattga gtaatgatgc atatagagtg gagtcagtag 120
 aagtttagaa tattggtggg agtaaagttt tggagccatg gactattcaa ctgagcccaa 180
 aaggtatctt gggccaatc cgagagcatg ggaagctgaa ggtctggaag cttctccttc 240
 ccaaagggca tttgtagtga tgtgccacaa gtgcttttgt tgggtgtctt taagaccaat 300
 tggttgggta ttttttcttg tttaggcact accatgtctt cagtttcaga ctctttctta 360
 agaacatggt gcaacaatgg caagggcagtg ttttgcctt cctgtgggct gctaaaggac 420
 atggtgtccg tggaggaagg agaagcaggg gaacc 455

<210> 30867
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e05d1

<400> 30867

accacattgt gatTTTTTTT ttttttaagc aaacatatta tagccttctt atgggattga 60
 aaaaaaagga aacccccgcg acacatgcaa attccaaggg ggaaatctct cctcattacc 120

tagcatgact taaatccttt ggaactaggt tacttccttg cattggaccc tatatactta 180
 taaatttttt ttactaaata ttgagaaaaa gggatgaacat tttggcttat ttcttcccaa 240
 agaaaattcc cttggaaaca caagattagg tgggcagagc caattcgaca cggacattgg 300
 tgttggcccc ctttcttttg aagatgctta tgacaagccc cgcttatagg tatgggtggg 360
 gcgcaaaatg aaccatcaaa aatttgctt gactccatt tgtagcaag ctc 413

<210> 30868
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e09d1

<400> 30868

agccagaata tcgggcaaat ccaaataatg ctgcattgtc acatagtcta cataacctgg 60
 gaaactaaca gcaatcaaat atgttcgcca tttggaattg gaatttgaat acaaatacag 120
 cgcatcaata atataacct atgtacacag ccaatatctg actgaaattt gatacagaat 180
 agtctcaatt tgtatcataa taaaatggca cagagaaatt tatgtgaagg taaaggggaa 240
 gtgtatcagc tggggtttta attcttcggc tttcatctac ttcattcattg gctccttctt 300
 gcacgttcac atttccttta tctgcttaag cactgctgac cttgttctta cccccaagg 360
 tccaatgggg ttttagccga gtacgctca atgccttcac tccgaatggg ttgttcttgc 420
 tcttgagaca agttccaaca taagtgttgc agatgggata gtcgttaggg c 471

<210> 30869
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e10d1

<400> 30869

acataaacac actcgttgca ttacatacta acttttatgt gccttgacat gtctaataaa 60
 aaccaagaaa agcctaattg aacatatgta atcttcatat actcttgatc aacagtgcc 120
 acgcctaatt tggatgataag ctttcgggtc tttttatgaa aggccagaaa ctactaacat 180
 tcacttcatt cctgctatta cttttgctac tgctactact ggtgttgcta ccagaacttt 240

ttatgcttcc actattaatg ctgcacacac cactatcact ctcttcacca gaaccagaaa 300
 ggctcttctt ttttcaccac tccttatcaa ggctcttaga tccatgatca gaaaccgaag 360
 ttttaggaga caccttgta gaaccactat tctaagga cttattttta gtcttctttt 420
 taaatcccaa agaaattgga aagaccattt tgagataaaa cctccactt tcaatgttcc 480
 cacttttctt tacttgacc ttttt 505

<210> 30870
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e11d1

<400> 30870

ggggactaat gaactgtgta aatagggatc atatttaata ccataaactt gtacacaaac 60
 atattttaca gtgtacttac actccagcaa atctaaacca agagtctttg ttatgtgcat 120
 ggaagatatt ataagtagaa acgaaataaa tcacaccagc cacattttcc ataagttcaa 180
 ttgcatgtcc aagaacataa gttttgaact gataaattat ataaattaat aagataggta 240
 gaaattttgt agtggcagca gaaataggaa catctttgtt gtgagtacc agttttaggc 300
 taaaccgggc actagttttc agcctttgct tcaatttttc attattttga cttgaaagga 360
 atggccctga gcactatctg atgggtataaa gctgcaagtg ctgcccacat aaaaggccct 420
 acccagaaga tccaatggtt attccaagct tggtccttgt tggatacaag ggct 474

<210> 30871
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062f01d1

<400> 30871

agagaaaaca aacacagact atactaataa aaaatattcg caaaaggaaa agtttgacaa 60
 caaaaattg taaaatccaa tctcaaacag ttaacaaaaa agcaacccaa actaaacaat 120
 caaggtgctt gttgttttca acatctactc ttccagtatt gttcccttct cactaacata 180
 aatgccatcg agaaatttcc tgatatacctt ctttttaaca tggcatttct ggtaaatgag 240

agcacaggac ctagaacaaa gttcaatgtc gttcccatcc aaaatcaatt catctttaac 300
 tttttcagat cgaacaacgg aacacacgtt aagaaggtec acttttctca ctttcttttc 360
 gccaaaggaaa tttctgatct caatagactt gttgtcgttg ccgatgcttg cgttgatggg 420
 aaaatgggca taaacgaacc tcattttgta gcggtagccc ttggtgacgc cggatgatcag 480
 attctccacg tggtcangg cgggtgcaat ggcggcg 517

<210> 30872
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f03d1

<400> 30872

aactcgcgaa ttgttccttg atgttatgca tatgcatata caaatttaca tacatgcatt 60
 tatttgcaca aggttcataa cagtaaagtg cagagggggg attcaggggg actaggtgtc 120
 tgtaagaagt atttttcaca gtgcatattt ggcttctatt gcaaaccaaa tggaccttat 180
 gatctgaagc ttggcacaga acacagatta tacaatttta agctacactc tcaaacaga 240
 taagctatga aaatggacat tgatcactga tcaatcatag gtgcatgaat tctttgtgaa 300
 tttgataggc tttgatcgag aagagttggg gaccaagggg caagtgattc acttacgatg 360
 ccttgtcttg accagtttac ccactacatt ttcacgcgaa cggatttcaa agtgtaatgt 420
 gagtggaaact tcaacaccag tttgggatac agata 455

<210> 30873
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f04d1

<400> 30873

agccagggca aatgaaacga cttgagtcatt tatggatttt aataaccatt gtcacgcaca 60
 taagtaacat tagatgaaat aaggatttca taatagaaaa acactgggttg aagcataaaa 120
 ttgtttattc gtgaatgtgc ataaaagcac aataagacac catacacgaa acacatcctt 180
 gttagagcca gaagccgcct cattcaccta tagttgcggg atacgggagt atacatgcaa 240

ctctcagcac acttcacaag attctgagga cgaggaagac gggtagccaa gccagttcg 300
 tatgccttgg cagcaacatt tgcagctata ttagccgaaa ttcttttgat attagagaat 360
 ggtgggtaaa tcaagccatt tttgtagttc tcctcactca cttgttttagc caaggattcc 420
 gaagctgcta aaagcatatc gtcattgtact 450

<210> 30874
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062f05d1
 <400> 30874

acaaacaaac ttattgtgat ttacttcatt ccatgggctg gacactacag caataatcat 60
 aatttcaaaa tcatcctctt caacttgaga atgaattact tcttgccact ttgcatcata 120
 gaaagtgaga aactttcttc acatacaact ctgccttcta ttgttggaga ggggtggatga 180
 atgaacaaag caattatgca gcagtcaact aatgttgcaa aaagatacat ctctcatcca 240
 atcacctaga agcgagccca gcatctagtg cattgtgcaa tacagtctcc cttacaatca 300
 acattataac ccaaaacttt tggatt 326

<210> 30875
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062f06d1
 <400> 30875

actcaaagca tatatatgtg atctgtaatt ctgttaggaa tgacattgtc tagtgtccat 60
 tgtttgacat ccaattacac gggaactagt ttttcgcaaa ggaaagatgc tagtccacaa 120
 attttaggag tgtaaattctc aaatctgtgc gcaggccaaa agtcaagaat caatatttgg 180
 ctcaggaaaa aaaaggcaaa taccaggatg taaatactaa atacaaaggc acaaagctac 240
 aaaccaacc accattcata tgtctaattgc cacgcattaa cgcaccaagg gtcattcacag 300
 aactccaat ggatacgaaa gcctgcaaaa tgagaactat ctgccgtctt acccattgaa 360
 atgcaagctg cattaagaga aaatcgaggt tctgtataaa tgtttttggg aaatttaggc 420

ttactattcc tgacgcagtt ttataggtag aaggggaagc cctacagtac cccgctgaaa 480
 tgtagaaatc tatctcaatt caaagtacaa tattttttat ctaaattacg ggaacaagaa 540
 gcttaagggg gaacggaaag ggc 563

<210> 30876
 <211> 484
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f07d1

<400> 30876

aaagtgagaa ctttgaaata aatctgggac actttatggc ggctattatg aaaggaagaa 60
 cgttcaaatg cattgcatag gcataactaa accacatttg acattaaaca agaagctaata 120
 ctccgtctgt tgccggttgg gtcacccac actgcaccaa caggctagtc aggtcttctg 180
 gggagcaaac tggatacttg tctttcccag ccggtgacaa aaaaacctgt gcaagttcaa 240
 gcttatccga ggtcagactt gtgctggcca tagtcttact taatacctta agtgcaagtt 300
 gaacagtttc tttccttggtg atatcatcct tgggtggcctg tttcacaatt gactgaggtg 360
 actggttggt ggcaccaata ggtgtagctt tccaaccacc ataattatca ctgggggtcac 420
 ttgtgtaaag ctgaaagccc atatgtcggc ccctaccaga aaagaggaat gtgactacta 480
 atgg 584

<210> 30877
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f08d1

<400> 30877

gaacttcaat aataatgaca tgcaattaaa tatgaccaac actaatggca gtacccaaaa 60
 acaataaagc agtcatttta agttaggcca acatctagca agaacaattc acgagctaaa 120
 taaaagtaac ataaaatcat gtctccttag aaaggggtatt ctttgcagcc tcagcagccg 180
 ttttctttgc atcaatctca gacacaatgg catcaatttt tagcttcagt gagtacagcc 240
 aatacctagc aagaacaatg ctgcataac acaaaacaga aaattatgtc tccttaggag 300

gggctttctt agcagcctct gcagctgcct tctccgcttc gatctcagca acgatggcat 360
 caatttcggc ttcctccagt tgacgcagac cctgctcctt agtcatcacc gcaacttcta 420
 tgttcttccc tccactctca acaacttcaa gcaatgcgcg aatagccaac ctgacagtct 480
 tctggccaga agtgtcctta ttgttctttt caggaactcc cgatc 525

<210> 30878
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f11d1

<400> 30878

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 attggtacat tgttaatcca aattttctagt ttacaagata actgtaatca tccataattg 120
 tagaacaac tccattgag atcttttaaac agaaacgtgt atacctacag aattttattcc 180
 tccttgcttg atggcctctg gtcagtaa atagagagggc catgaagagg tataacggat 240
 tggagccaag ggtatcttca tgtgtttatg cattattaga atgaaatctt cactgacctt 300
 catctaaggg acccacaacg cattttttcca ataagaattc agcattaacc caagcatggt 360
 ttttatctga ttcaagaatt aaggaaaagg acggaagtaa acctaacaaa atagaaactt 420
 tatccatggt ggggaacaaa tgaacatggt agggcaccta cggttgaaact tgaatca 477

<210> 30879
 <211> 321
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f12d1

<400> 30879

ggggagaaat ataaaaacat ttttttgtac caaaaaaagt gttaaggggt ttttttgtaa 60
 aaaaaacaga aaagaaaacg ggcgggaaat aaaaaataga tccccaaaaa cccaaagaag 120
 ctccccgaag ggtctctctg caaagggggg gggggggcggg ggccaaaagg gggaaaaaaa 180
 aaggtcatgg gaaaaaacag ggggtgcaata acaacaaaaa gggggagggg ggcaatgata 240
 gggggggata gggtttttaa ctccatgatt gggttttcaa aggcattgtgt tttttggagg 300

ggggcgctgt tttttttgtg g

321

<210> 30880
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g02d1

<400> 30880

acataaacac actcgttgca ttacatacta acttttatgt gccttgtcat gtctaataaa 60
 aaccaagaaa agtataattg aacatatgta atcttcatat actcttgatc aacagtgcca 120
 acgcctaatt tgggtgataag ctttcgggtc ttcgtatgaa aggccagcaa ctactaacat 180
 tcacttcatg cctgctatta cttctgctac tgctactact gttgttgcta ccagaacttt 240
 tcatgcttcc actattaatg ctcgacacac cactatcact ctctccacca gaaccagaaa 300
 ggctcttctt cttccaccac tccttatcaa ggctcttaga tccatgatca gaaaccgaag 360
 ttctaggaga caccttggtta gaaccactat tctaagga ctcattttta gtcttcttct 420
 tagatcccaa agaaattgga aagaccatt tgagataaaa cccttcacta 470

<210> 30881
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g04d1

<400> 30881

gaaataaatt tagaatttca tagaaaaaaa atgttaaaag attctgcttc tcttgctctc 60
 ttgcatatac acttcatgat atttatttcg caaaaaaaaa aatatactac atggtagtgg 120
 tattgattga caaacacaag gttcatgata aacatcgtgg caggatcatca tatcagtaga 180
 tacgatgaag ttgtttccct tgtgaggaga ttcatactgg gttatcaaca tgagaaacct 240
 gaagcctcca agtaacaaac tggatatacg catagttgat gcccatagca actccaaaac 300
 caaaaactga tgaaagtagt atggcatata tggccgtcaa atgcaacata gtataaaata 360
 gatgcacggt taaagccaca agggcaaact caagagcagc atatgtccat atatactctt 420
 taattggtag gataactgca aaaaaggaag ctaggaggcc caacgtaaag gcaaagtgtg 480

atgctataat aatcgcttga gt

502

<210> 30882
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062g06d1

<400> 30882

accaaagcaa tcaaacttgc gcttcttgca tatttttgca aatggacata acatatataa 60
ttacgtatatt aatatatatt atgcaaata ctaattagta gtagagctaa tagtagtaat 120
aatagcacta ggaataatat agtaattaa agaaaaatta agaagctagc atcagatcat 180
acacttgatga ttattttgac cctcaggaat gttgactggg ggaatcacgt ccatcgtctt 240
cgccgtgatg ttgcccgga ctgcccgag gcttcgagac gccgttcgcc ggaatctgcc 300
tgtaggcatt aagggctgca agcatgccta agttactttc acttagaagt tgagcaccgc 360
cgttgccacc accgccgtca ccgtcaccaa cgataccgga acctagttga cctccgggca 420
taaggttcat cggagaagcg aaattcatga aatgaatgcc acctggagca gacatagctt 480
tctctataca caccactatt tccaacagag ggaattggcc aaatgggatt atta 534

<210> 30883
<211> 355
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062g07d1

<400> 30883

gggaccatta aaaagagaac ttttatttaa agctaattaa cttagccccg gaagggggccc 60
ttccgacttc aaaagggcgg ataaattaag gggttattcc gggctctttt aaaacaattt 120
ttgaagtgtc atttggaactc ggggccccta ttttaaccca aattatgctt ccgctaaaaa 180
ttaagtgcaa ttgagcgggg ttttgggctg gttacttata gggaaaaaga gcccccaaa 240
tttttcaaac cctgggtggg gtttggtttt cataaaacac ggacaacacc ataatttcaa 300
ggggggcccc ccgcccttg gggggctcctt gtttttcatt acgaacaaa ttggg 355

<210> 30884
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g10d1

<400> 30884

ctctaacc aa tcaaatttta tggcacactt gtacgtaagt ctgaactggt tttccaagac 60
 atgcttgctt ctagataact ttttgtcctg aatcaaacct tttattttat acatcttgaa 120
 ggcattcttct attctgacat tatgcttaga ccagatgcaa gtgatggaat actttgttca 180
 tatctgaaaa aattgcttgg atcaaccttg gtctttacct ctaccagtct atcatagttt 240
 cttttgaaat acttctcacc ccagactcta gcctctgcat aactagcatt tccagggtcca 300
 ttgacaccta tatcaacgct tctatagttg atatatgaac ttctagggtga acttgacaca 360
 taagggtgtca tataatcata gagcctccga atccgatcta gatattctgtt agcaacatct 420
 tcaccctcct ctttccaagt cacagagtat tgaattttat aaatggtacc agctctatgt 480
 ggaaa 485

<210> 30885
 <211> 407
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g11d1

<400> 30885

aaacccccca aacaataaaa acattttgat ttttgggggg actggaaaca taaaaaccaa 60
 ttttgccttt tataaattta aacagaaact ggctcaaaaa tccctgggag aaaagaggct 120
 taaactatcg gcctcctaac tggggggcacc taatttttgg cccaccatg aaaatcgaat 180
 aaaaggaaaa accaaaccaa gcagaaccta caaagggtcca ataccctccg ccaattgcat 240
 aaaaaggctg gcttccaagg ggacctaacg gggaaactta taacatactc aacttacaaa 300
 tccatttttt aaactagatt ttttttttaa aaacccaag ctttaaatac caaattagtc 360
 aaccctaact tactgaaata tggcacaaga ctgggggcat gaaaaac 407

<210> 30886
 <211> 389

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g12d1

<400> 30886

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aaaaaaaaac caacaactgg atttttttga attgaatcaa aatcaattgc agataaacia   60
acagatgggg gttgaagccc tttttttcaa cccataaaag ggccgcacaa aaaaggcttt   120
atgacaacat acagcccaaa cgtaaaaatg agaattgttt gataaaagtt cctagggccc   180
acaaacttgg aataaaattg aaaaggggga tccccagca aaatggattg ttgcaattaa   240
aaaacgtaga gctttttttt aattaagaca ttgccctttt ttggaacttt aaccttggga   300
tgagctgttt gaccctggca acccttggtta cttacaaaaa caatctccat ggatctgcca   360
caagcagcat tagggcaatt aatggggggg                                     389

```

<210> 30887
 <211> 367
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062h01d1

<400> 30887

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cattgaaaag catccaattt taaaaaaaca taggggaaat aaacgataag atctgggaac   60
caaccacttg acttatgggt cctctatata aaccgaacgc ataaaagcat tagacagtgt   120
tatcaatctg acgcaaccgg tgtgtgtgag cttacgaggt aaattgttat aaagaatatt   180
tattctcgca aacacaggag ctccaatctc gtttgccaca atccataaga tgatagtact   240
ttatcgccac atggttgtaa aaacctgctt actttaggcg gtggaatcat atatcccggt   300
agggcttata tgggagtata ggagaaaatt gttttgactg agcaaactat ggaggatgat   360
gacacct                                           367

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<210> 30888
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062h02d1

<400> 30888

caatgtgaag aagtttggtt atgattaacg aaataatddd gatatgtaga ttaaataaac 60
 acacgaagta caaataaaca ttggtctctc taatcacaaa ggagattaag tccattgtgg 120
 tgtgccttca tgactgaatt ataccaaagt actaccctta acatactcag taaaagccag 180
 agcaatcaaa cccaacatag caaatcttcc attccacagt tctgcatctg aggacatgaa 240
 ccctttggac ttagactcca cgctgacacc ttggaagagt ggaatcaagg aagcaagggt 300
 aaggaccaca cttgtcccca agaaccatgg gatgccacca ttggatattt gttctaacac 360
 accttgccct ttggtactt ccaactgcat tgcagccaca aaccaatca tggccaacct 420
 tccattgatc ctctcaggtg ctggcccact gaatgccaac acatcagaaa acttagtgct 480
 cacctttggt gaaggagcag agactggctg tggcttggtt tctactgatg gtggcggtgt 540
 aactggnngt gcaggctcac ttg 563

<210> 30889

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h04d1

<400> 30889

acgccactct agaacatcat tatttattta ttattttatt tatttatagc tcttaacaca 60
 tataattccc tggatacaac atgtatactg gtcataattca actctagaga gctttatctg 120
 atatgatcat ccttaacata ttcaaagata gctaaatact taactgtata atatatcaca 180
 caaacgtaga gtgacatata tagagtaaata aataaatata agtttaattt atacacacaa 240
 actatgagta tataacatcg ttatccaaat attcaacaag aattttacttt attaccgcat 300
 catgttaaaa tgttgcgata aagtggtgaa atcctattga atgcttgtgt caagatgctt 360
 tgtaggatca aagtgtgtat aaattaaact gggtatctat atatatatat atatcccaca 420
 ctttaattat aagaaggctt aattaattaa caagttggaa agggaatccc acaagaagca 480
 acggtttttc gggcattagg agagttaaca tact 514

<210> 30890

<211> 295

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h05d1

<400> 30890

gagaggacat atacgccact ctagaacatc attatatttatt tattttattta tttattttata 60
gctcttaaca catataattc cctggataca acatgtatac tgggtcatatt caactctaga 120
gagctttatc tgatatgata atccttaaca tattcaaaga tagctaaata cttaactgta 180
taatatatca cacaaacgta gagtgacata tatagagtaa ataataaata taagtttaat 240
ttatacacac aaactttgag tttttaacat cgtttttcaa tttttcaaca agaata 295

<210> 30891

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h06d1

<400> 30891

agacgcgaat agaaaaacat ttttataaga aaattttctga gatgttatat ctcttttatg 60
gtacattgta cagagaggag ctgttccagc cctctagtag acaggaacat aggacgaacc 120
atgcaaattc atttttcagc tcaaattaat ccaagctcaa gttaatatatta ttcgaattcc 180
aaaattatta attgcaaggg ctattaacag tacaccacca tgaagctgac aaattggttt 240
tgaggatgca accctgaact tgatgtcttt cttgccacgt agtatgtact ttgtttattta 300
tttccaaggg agttttaaag tatctttcca ccatccttgt tttgagcaat ttgcaacgat 360
tttgtccaac cgtgcaatga cctgagaaaa tgttggcctc acaacagggtg ttggatccca 420
acattcctcg atcaactctt ttaactctgg aggataatgt tttgttttga t 471

<210> 30892

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h07d1

<400> 30892

cactaagggtt acattatgta ctaattgtga agaaacttac attttccgtt gccaacacaa 60

gaaaaaagaa ataaagaagc aagctaggat cttgtcatta ctaaaattgg agccaggggt 120
 atattacaaa tatttcacaa tttcagaaaa ttcagtaagt ggaaagctac actacattgc 180
 agtggcatat aggcaattca aacagcaact ggtgagggag ttgaaggagg gacccgattt 240
 tcagcaggaa tttcaacaaa ctcgacagg agagctcgga attcatctcc agacattgtc 300
 tcagtctcca atagaacttc cacaatcttg tcaatcgctt cgcggttgct ccttatttgg 360
 ctcaacgcaa tttcatatgc ttcattctgag agtctcttga cagcagcatc aatgtcttca 420
 gcaagctctt ttgacattga gtttcttgcc atcattctca tgataacatc actttgagct 480
 gatgagtcca cgagtga 497

<210> 30893
 <211> 456
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400062h08d1
 <400> 30893

gggaaaggaa acatgatcgg atcctccttg agtccttgta agaaatgttt aaaaacaaaa 60
 ttatgagaaa tacaaagctt agtcttcaga catgctcagt agaaactgcc tttttatttt 120
 taccctacc aaactagaag caatacacia attttagttt aagactggca atactcaaag 180
 attgcacagt cacatggatt tcaaaactca tcatcagctt tctctcacag ggcctcaggg 240
 ccattaattt ccttgtctgc gatcacagct ccgtcaggta tttccagctt cacaccgggt 300
 tttgcaagaa tacttgcttt tcccttaagg attacaccag ctccaaacca tacattgcct 360
 gccactttta gactgtcaag ctcaacaata ctggggattg acttgaaccg gctcaagaaa 420
 ttgcttacct ctttaaattc tggccccaat ttaatg 456

<210> 30894
 <211> 476
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400062h09d1
 <400> 30894

gatgcaaaac tgagatgtct atctataaag aaaaagggaa ctcaacaaca tcatttatgt 60

cttacccaca ccatactccc ccaaaatatac aaacgcagta aaagtaaagc acaaggggga 120
 acaggcttca aggggtacagg accgtatgaa gaacaacaac ataaatttac actttcaagg 180
 cataaaatta aatgaacctt ccaatccagg aaatccaatt accatagtgc ttttctgat 240
 taagttcaaa taagagaacc caaaattgaa aataggacag ggatatgaca aaagggttct 300
 agcaaggcct cacttggcac ccaagtttgg gaaatgccca ggatcttcaa tggatggagc 360
 aggtgcattg ttggtggaac tttcacggta aacaccttcg ccttcgcctt caccttgtga 420
 accacgggca cgaccctac cacgccttgg ggtatagtat gcttccccct cagcag 476

<210> 30895
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h10d1
 <400> 30895

ggggggggagg gggagagatc aattactaaa cggagctctg tccaaagcca acaaaacaga 60
 gaaggggagat gagaaccagg aacactgaac actgggcaga gcagaattcg gcaattcggg 120
 ttccaaatcc aaactacccc aaattcctca acttaaattg ctggcgctctc acaagccata 180
 atgccaaatt catgttgcac gaaatcttca ctaggtctgt aatacttgtc tggagagtat 240
 aagcccaggt tagatacttg actagtataa aggcaagcaa atctctcaac ctgatgagca 300
 aagcgagaat tctgataacc agttttcata agctgtcccc atggctcgtg aaacctttga 360
 tgtaattttt tctgagcttc ttgatgactt aatcgcactc tctctctttc aagctttaat 420
 ttatcaagtt cagaagataa cttctgcttg gaatcagcat ctggattctt gaatttgaga 480
 gaccatttca aatgatgtat t 501

<210> 30896
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h11d1
 <400> 30896

ccataattca aaaaatcgta tccattaata tttctgagca aagatcacia caaaaaaagg 60

aaagaatcat aggtatagat tctcattatc agatctatac acataaaatg attatatatt 120
 ttgcaaacca aataactcat taaagtgaat ccatgggtcac catgagactg ctagcagctg 180
 tagccggtga cggctagcaa aacagcaata gcaagtgcag ctggtgcca tatatttctc 240
 ccttgctggt ggtttgacga tgcagcattc aaattcagac ttggtgatgg tgctggtggt 300
 gtgtctgatt ctgctgtgga atcaggtggt gccgggggac ttttgcgaa aattgttggt 360
 gctggagctg gtgcctgatg cctcctgtgc ctgtgcctgt gccttctatg cttatgtgac 420
 gatggcgccg gtgctggtac ctctactacc ggcgttggtg ccaatgttgg tgggtggagga 480
 acaggagctg gagttggtgc tggctt 506

<210> 30897
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062h12d1

<400> 30897

caaaatatct tcataatcta tcagagcagt tgctactgta ttgtggaaca atttgtgatc 60
 tatacataaa ccaaaaacta acatgtttgt atcaaaagaa tattcaggca ctaaattaga 120
 aatttgttca actcattcgg atctaataat tacttcaagt gcccttcctt tctgtatgat 180
 tataccaaac gaaagatcca tatcattgct tacacccag gaaggatata ctgcaatact 240
 ccatttaact caatttcacg gacgcaaatt tttctgcaag atccatagct tcgtttacat 300
 gtgatgcctc tgtaccctga cccgtagcaa gaccaccttt tcctttacca catctccctt 360
 ttagaggccc caaagcatta ctgagccaat ctgccacac cagcttacct tgacctcctt 420
 tctctggcac ccagcacaa actacagcct tgttagtaga ttcattcgtg ctaaaaacca 480
 tcacagataa gcctttctgg tccatgactt ttg 513

<210> 30898
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063a02d1

<400> 30898

aacagaagcg accatagcat aatactcttg ttttagaata atttcataga tacaacagta 60
 gatcccgtaga tccagtattc aacaaattca tcaacttcttt ctcacaatta cataactcat 120
 cgtaaacactc tcggtattaa tatatatagc atatgggtgta gcaactagct acaacgttgg 180
 aaaattcaga tatgatcttt tcctggttct ggtttatggt gtcattcacac tcatgagaag 240
 tactccaagt ccaagtgaca tccacattcc gtacacagcg atcttctcgg tgccagagtt 300
 ctgttcagtg ggattaacct gtgacgaatc tgaagatgat gactcgtcct tatcagcttt 360
 aggtgccttt gcggtgtcac ttgaaggttc tggagccaaa gaggggtgatt ttgcagggtgc 420
 cttggttaact gcaaagaagt tccgtaggaa gaagcacttt ccccacctta taaatagcaa 480
 gatgc 485

<210> 30899
 <211> 528
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400063a08d1

 <400> 30899

aagaacaagc ttttattcca cctctcatatc aaatattatt cagcaattcc taattccata 60
 ttgggttttaa caatgggggc aacatattaa agggggcaaag atccgtaata aactacatcg 120
 gctgagcctg tcatataaac atgattatct tcctccctcc attcaatctg aagaggctcct 180
 ccaggtagat caaccgtgca attcctccca gcacgaccct caagaactgc tgcaacaaca 240
 gtagcacaag ctccagttcc acaggctagg gttgctcctg ctccccgctc ccagacacac 300
 attttcaagt gagaattaga caacacttgt acaaactctg tgttagtctg tgcagggaac 360
 acctcatgat gttcaaattt tgggccaatt tctgctagct tcaattcatc aacaagcaaa 420
 ttctggcttc cttctctact gaaagttaca cagtgtggat ttcccatgct gacacaggtc 480
 acatgccaga taactccatc tacaactagt tctgatttaa caacagca 528

<210> 30900
 <211> 526
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400063a09d1

<400> 30900

acttaagtta ttattatctg tgtcaactgc tgttgatagt tttaacaacat tgttttctaa 60
 gatggatgat cgctttgaag attttcaaag tatataaaaa tgtaatatgg cagaatttta 120
 ttccttggac caatgatcaa ttctcgtttg atgaatgtag cattagttta acaaacatct 180
 gcaaggaat ttcccaaggg gctcaacacc atccacatat aaggatgggt ggcatgttat 240
 tgctccttga agagttcacg tccaataatc attcttctga tctcactagt tctgcacca 300
 atctcgtaga gtttggcatc tctcaagaga cgaccagtag gatactcatt cacataacca 360
 ttccaccta aacattgtat tgctgcaaa gcaacctggg ttgctctttc agctgcacaa 420
 agtatagctc cagcacaatc ctttgggtca acttttccgt tgtcacaatc ccgagctact 480
 gaatacacat tagacctaga agactgtaat gaagtataca tgtcag 526

<210> 30901

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063a10d1

<400> 30901

gcaacttata tcattgttaa gttgaaacgg ggaaaagtac attaaaaaaaa cgagaaaagt 60
 aaaatccaaa tccaaaacat aatgacaaga caggttatta tctaaacttc aaaaggggtct 120
 tcgcaaaatc aagaacaacc catgacaatt ggtctgctta atcgacttcc tcaattttgg 180
 gtccagcacc gctttcactg ccagcagcag gaccatctc atccatgggt ccaccgcat 240
 caccaccagc tccttgggtac atctttgcta tgatgggggtt acaaagtctc tccaactcct 300
 tcattctgtc ctggaattcg tcagcttcag caagttgggt tccatcgagc cattggatag 360
 cctgctcaat tgcacctca attttcttct tatcatcagc agacagcttg gaagcaatct 420
 tatcatcttt aattgggttc ctcatgttat aggcgtaatt ctccaatgta ttttt 475

<210> 30902

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063a12d1

<400> 30902

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gcacaaaaca tttatattca ctaatagaag gaaaatacac atagtaaata aaatagaaca 60
taaaattaaa cctggataca cgtttaatga atttgttttc atacatccat gtaaccttgt 120
attaaagatg atacaaatgt taatgttcct caattttgaa tcatatagat gatggtcact 180
cgtttccctt tatgacatca gctttaccat aaactggagt aacaattcca agaatcacia 240
agccacctaa aatgactatc agaatgccta aggaattgac cagaagtgcc tcattggaat 300
agcgtgatat gatgttggtg acctgaagga atgtagcttt ttctagaata ccagtagcag 360
ttgtggctat agccaagcaa tagatataga taccaaagaa cacatgccat ggcaataagg 420
cagctctact atttcttgac cctcctgggt accaaaatgt tgcaaagcca gcacccact 480
ggat 484
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<210> 30903
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063b01d1

<400> 30903

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ctccaaccag ttaatatcat caatttatat attcattact aattaattgg tgtcatctgt 60
taattagtaa aaaagacaat gaaaacttgt acaacataca ttttggatat taaaagaaaa 120
ggggctaata ataacaatga caaccctcat ttgcacaaca tctggcaaac aaccaagcaa 180
taatttaaat tttttagtag aaaaataaac aaaaggatta gtcaaactaa caggaacaaa 240
gaaatgaac taagcccctt atcatagtag atgaccaagg agaaataggg agaggatggt 300
ggatacatca ctctgtgggag attcttctca catcatcttt gtactttctt caatcctgct 360
ttacctgttg ttatacctga caatgtaaca ggtagcatat atgatacggt tgtttgaacc 420
acaaaatcaa ttctatttcc aaatctttac agatttgtca tgactg 466
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<210> 30904
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063b05d1

<400> 30904

gatgattaaa ctgtataatg aagatgagac cgctcaatct ttcactaata actgcaagag 60
 taaattaaaa ctctcgcaaa acattgatat cgttacaacc actgatccaa gtgaccctta 120
 ttttagaata cagttacacg cacaagtgc caacacaaga ccataggtaa aaacataaat 180
 ggcatgaaca atgagtcaaa gcaatggcag aacaataata ttaacgccac caccacttgt 240
 aacagtgcac tcagttcctc tgcagtagca gagaaattag acatagcccc tgctcttcaa 300
 actctccact gcaccttga tgatttgctc aacaggagtg aattctagac ctaaataaat 360
 cagcttcttt gatgcacctt ttcacttgc tctcaacaac cctgggtggg tatcctttgg 420
 caacttagcc acatcgtatt caggggtataa ctcagcaacc ttgtccacaa gatcactaaa 480
 gtgacgaata gattccacac ac 502

<210> 30905

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063b09d1

<400> 30905

aggtcaaatt tttttaaact tatcttccaa aactgtgtgg ttgccccac caaactcggc 60
 aagcacaagt ttcaaaatgt atactcttgt ataaatgtca agatccaaac ttataatatg 120
 taaatactga tatttattat tacttcttac cacaagcggc ttcttagatt atatctagt 180
 gaccaacaa ctaatcacia tgctcaatac tcttaaattt gtgtttttca ccatccattg 240
 ttattattca agaagagaaa aagatccaaa tccaaaaaca aactacaggt ccacatctgc 300
 agatagcctc caatttattc tcaagcaggt attagaaaat attgaaggca catccctcac 360
 accatcttgg aatgttgggg tagaactaac tacacagggt atttgtatag ctgaagaacc 420
 ttctgccaag ctggctcggtt actaatatca tcccaccaag cactcacatg c 471

<210> 30906

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c02d1

<400> 30906

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agcgtaaagc acagtaagta tattggatac taattacaat aagttacatt tttgtgtgaa   60
aggactagaa ttataaatga tgcaccacta acttagttgg gtgcagataa aatgacatct  120
agacttaacc ttgtaattta ggtgaatgaa acattagcgg ataccggcaa agtatgccaa  180
aggccaaca aaagcagcat tgatgtaagt tgcaggctca gaatgactgt aatcactgcg  240
gtcatctgga aatccgcat tttggtttgg acctccgact atggctgcaa ccaatatgtt  300
aggattagga ttcatcgaat ggaaaaatgg gttgaaacct ccatcacacc ctatgctttg  360
tggatgagct gctattgaag gcaaggaaga tcctctgtgg tgaattctct tgggaaagta  420
tggacatag cctaccatgt aagacaattt tattgggttt gcacctaaa   469

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<210> 30907

<211> 545

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c05d1

<400> 30907

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gccatcagaa ggttttttta ttgtattagg atgtcttgtg aaataatttc ttggacaata   60
atgctacagt gtttggttgc taaaatcgtc tgagatatca aacactaaat atgtttagac  120
ccgcacaaac ggctaaaaaa taagatgata gagatcatca catgtctact ctagcgctcc  180
tgtggctcat tactgctgag cgcaactgcac tctctgagca ccaccatgca tatcctcatc  240
ctcatcatat gcctcctgct gagcttggtt cctcctcctt gtctcttcct ccatgttcac  300
atcatggagt gtggtctcct cacactcatc cagctccatg tctgacaact gtgatgttgg  360
ctttgatggc agaacagcct ccaaagcctt cacctgatca agactcaggg tatcaggaaa  420
ttccactgag aaatgaatgt aaaagctttc ccttcaggaa gtgcctctgg tagtttggca  480
ttccctcatc atttattgcc ttgaatgact caggcttaac aacctcccca gggtttgatt  540
tgatc                                           545

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<210> 30908

<211> 430

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c08d1

<400> 30908

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ggaaactgat actgagtcac aacccttcaa gaattattgg gaaaagtttt gggaaagtag   60
acttaaaaga ctgaatcttg ctctctctct tgaatatgat taagctcaac ttaaaattaa  120
gtcttcttag gagcaagctt ggccttgatg tcatcaacct tcttagtata aatctggaaa  180
gcctgagcaa gaacatcatc aggcacagtt ggggttgaag tgaaaagagc tgcagctata  240
gacactgggc cagggagttg gctgttgaag gcaaaaagca caaaagcagg cttatcccca  300
ttgttcttct gatagggcac caaacctttt gggaacacaa agatttcacc cttcttaatt  360
gactttgaga tgagtttatt ggctgtggtg atgaatccaa catctagttg tccatccaac  420
acaaacacaa                                     430

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<210> 30909

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c09d1

<400> 30909

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aaaaatcaaa catgataaag gttatataag ggggagtaat tacaccagta acttaggcaa   60
aacaggtata tattgatctt ggaaatagat ttgaagtgaag gggtcagatc tatcgtctac  120
ataagaaact agcaggaata ggaaaactaa aattgcaaac acgcctcaaa tgaagaagcc  180
ttatttagac taaaaagggc attctagagt ttgcgtaaaa tgagatgagc cccacgctca  240
ggctgaagag tgataataaa ggagggggca tgatcatagg agggggaaaa atggagggag  300
aaacgttgca ggatcattga cacagctact tttgcttcta acaagccaaa gttttgtcct  360
atgcaaagtc gaggacccca tccaaatggc aagtaggaaa gcttgccttt tgttgccttt  420
gatactcctt ccgagaatct ttctgggttg aattccccg                               459

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<210> 30910

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c10d1

<400> 30910

aatgatcaat tatttaattg tatacatata ttatatacca aaatatattc gaattataga 60
 agagaaagga aacatcaaaa gccaaagatat atggcaaagt aatataatct atacacaaat 120
 taacaatgag tagtgtccac tccaaactca tttcactctc atttgaaggc caaagtagtt 180
 gaaatatctt gtctacttgt tgctttcttt attaagaatt ttttgaaaga ttcaagaatg 240
 gaccggccaa gaatctcagc caaggaatgc tcaatttggt gcagaagatg gtgagccaga 300
 gggcttaaaa gcagcttggt cagcacagga gagaacttca ttaggccctg cctcttctct 360
 gccaacaccc aagagatcaa gataataaag atagtgtgaa atgatgttgt tcatggcctc 420
 attatctgat ccctgaccac aagtttgatc cccatagagc aagtttattg tggcaccaaa 480
 tccgggtacc cttttggaca at 502

<210> 30911

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c11d1

<400> 30911

gtatgttgag aaataaaatt taacatcata caattctgca ttcccatggg caggtaaaaa 60
 attgttgagg atgatcaaaa cacatgcttc ccagctgac aaacaccaat aattaggaga 120
 actgcttccc tggaatgact acatatcaaa aacagcatca gcaaagccat ataaatcaga 180
 acctccactg cgactagaag caccaacaga gaggtgctct ggcacacctg caaaaccttc 240
 tgtggatgtt ttcccatata aattattcaa tgttgatgca gattgtccca caaaactctg 300
 tccaactgac ctatcatgag acaatgcccc ttccccaatt ccatgatata tatacatata 360
 ccctgatac ccagaaaatg aaccacccat agctcctcca agcatattag cccacttgc 420
 cactgcactt ccaagatatt tttcagccaa agaatccgaa gcagatgctg cagtgaata 480
 attattcggg taattgccat aggatctacc atccagcaaa tgtgccgaca atgaaccatc 540
 atatgagc 548

<210> 30912

<211> 502

<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400063d04d1

<400> 30912

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aatgttaaaa attttttttaa taaattctaa atcaatcttt ttagtatcta caatttacac   60
acaggacaca accattggac acaattacgg tatgaagaca gagaccaata tcaaggacta  120
ttttgctttg gagtggccaa ctagatgctt aaggtaattt acacaaacgt atgtttccac  180
atgatctgct taattccttt accaggattt aagaaaccac aatcatagtt cattccaagc  240
acagaaagta tgtttgatgc cctctccct ctaatctcct caagcgataa catttttccc  300
attaaaaata gctctgaaca ttcctcattg tcacctacca ccagctttat cagccgcagg  360
aactttctca gggtaactgg atacatccaa gtcaatgagg gtcaagtcgt atggttctga  420
aacagaattt gacatatcca caagcaatga agaattagtt gcatcagaaa tntgaagcat  480
caggcatgga accagaattt tg                                           502

```

<210> 30913
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d05d1
 <400> 30913

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cacaccaaag gtctgttttc attaaaagca atagattctt cacaagcaca caccactcac   60
ttgacatata tggaacacat acataatcca tatagcatta cttagtgggtg gggcatttct  120
tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg  180
aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt  240
gtggtagtgg catcttcttc agattggaaa cgcctcaatg atggaaggga gagcgttgat  300
cttgatgatg ttgtaacgag cgaaaccggt ttccttgaac agccacttcc agttctcttc  360
ggctctctct ttgccaccgg cgttgtgagc gagaagcatc atgtcgaatg cgatgccaac  420
gtctgtgaag agttcgttgc cttcgggtcg aagaacgtga tccacgatta tgacttttcc  480
tgtcttctct ggtattgcct tctgcagtt cttcaagatc ttgatgcagt gctcgtcgct  540
tcagtcatgc agaatccact tcatgtaaat agcatcagca ctaggaat                    588

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<210> 30914
 <211> 442
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d07d1

<400> 30914

attaaagata tttatatcat tatacatata tggtttctct tctctttcat ttttttcaca 60
 accaaactag gaaaaagaaa tacggtaata acttatataa tcaactcact ttctattctt 120
 ttttttttct ttctattttt tccctttcac tttctttcct aaactaaaca tgccattaaa 180
 gaaaatgact gcttattttc ttccttgaaa gtaaactata tatcattcca ttgttcgtca 240
 ctcttgagta tgctgaggtc ttgtgctaatt atttcatgca tttctgctgg atactcccct 300
 atgataattg ggtccaaaaa ccaattcata taaaatgatt gagctcgctc agcagctaac 360
 tggctctttcc aggagtggct gacgggttca aacaatttgg atttaataac aactccaatt 420
 ttccctccct gttttttatg at 442

<210> 30915
 <211> 154
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d08d1

<400> 30915

aagggggcaa caactaatat tatcattaat agtgagtcaa tgacaaaca aaaccccggt 60
 tcaaaatatt aaaaacagaa agaccccgta accattggat tagactaaca ccataaaca 120
 ttagattaga ttaatactaa aaatcaccag acaa 154

<210> 30916
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d09d1

<400> 30916

atattccata aatcttgtca ttgagtgaat taacaccacc gttttgccac attgttagag 60

aaggatatga tcgaattagg aactgggggc gtaactatat gcgaaagcat ttagaagtga 120
 ctcttttgaa taaaactcca ataggcaagc aaagacaaca tgtagagcta taaagttgat 180
 agaaatgcta caatccaaat gtccaagatg gaagtagctc agccgcatca aagttctagt 240
 gaccgtatct ctgaaactcc cactcgctat tatctagagg acatacttga cgggtcttga 300
 gccatcggct tatgcaatgg aagtgaaaag catgggttaca aactcccaa gctacagtgc 360
 attcctcgct agtggcgcta gcctgggttg cctggcactc aatacagaga tccatgatat 420
 ggttgcgga aatagcgcaa ttatccacaa caatatccca agcccagaga gaaacggcat 480
 tccacttctt gatc 494

<210> 30917
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d10d1
 <400> 30917

gttctcttat tttatgtgac tagcgtaagt gagaatacaa aaaatacttg tgatgaccac 60
 cgaattcatc ataaaattgc gacccaaatt ggggtgtagtt ctgagaataa gcagagagac 120
 tcccctagca acaatttaca ctcatgttag ataattgact agacaaacca gatccaccac 180
 catccaaatc ccttttcttt ggcttcagtg atggagggtac ccagttacca ataatatcag 240
 catcagcatg ttcatgatca tcataaccaa tgacatcatg gctaggctct ttacgactca 300
 cagagagcca cttggcttgc atgtatgaag cgtttctcca tgggtggcacg tggagaccct 360
 tctctctt 368

<210> 30918
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d11d1
 <400> 30918

aatattatat atttgagatt cataattcag attaactagc cgaactttat acagaagcga 60
 ccaattacca aacatttata tatatatata tatataaaaa aaaggcaacc atgaccttaa 120

cacacccatc acaagtccaa aacacttgaa cttgctcaag ggcaagaaat gaccacttta 180
 ttctaagggt gtttggttag acacaaaaca ccagagtgc acataatata tactacataa 240
 ttttgaagtt ttgaaactac atatagtttt tatcattatt tctaagggcc atttctgctt 300
 gaagcttttag ctctccaaca cctcacttgc aagtgcaggg gttgcaggtg cagttagctc 360
 cacatttgca gccatcggtc tcagcgggaa caccatcttc agcactctcg aattgagcct 420
 taactggtgc cactcccatg accaaggtct cggtggtggt tgactcgggt tagctcaagt 480
 ctgggtaca 489

<210> 30919
 <211> 533
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d12d1
 <400> 30919

aatgaatata gctatgtaca ttataagaac aggtaagtaa agtcaaaatt ttaaaataaa 60
 tgcccaatac tatcaactgt tttaaaaaat acatgtaaat actgtagact aagggaaaag 120
 cagggaaaaa aaatagagag aaaaaaaaaa ctccaccaag gccagttaca gatttggcca 180
 cctcgatctc tctggaattt gcctcgggtg ctcaaactg tcagattctg catgaagaca 240
 gcaaccagca tgcactgtct ctaacttgaa tctagaatgt ttatttacia gtccactgca 300
 tccctataat ttgacaatcc atttgcaggt aattgcccgc cgcttcaaaa aaaaatctta 360
 ctgtacatcc ctcccttttcg gttttctgct tggctcttat caacaataaa atgagtaaag 420
 aatattgttc taccactaat cctgacattg tacaagacaa cattagtctg gctctctttg 480
 actttccttt ctgctgagag attggacaag aggagaaagt gcagtacca ctg 533

<210> 30920
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e01d1
 <400> 30920

aaagggggaa atggcgaacc caacccccg gaaattccaa ataactttaa aaagaacttt 60

taaaaagaat tttttttttc cccgggaata aaattccccc ggataaattt ggttccccaa 120
 aaaaaaaaaa gttttttttg cctgagtggg gttaattatg ctcccattgg gccccaattt 180
 tttcttcccc gggggaagct gtttccactg gggctgcaaa aatcgggggg accaaaacct 240
 ttttggggga cttggggaaa aaaagaactg ggaaaacagg gggttttttc cccgggaccc 300
 ttttttttat agggggcccc tttcttttgg ctttttcaaa ggaagatttg ggggggacaa 360
 aagccccctt tggggggggg gaagccccctg gccccgaaa actttttt 407

<210> 30921
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e04d1

<400> 30921

accataataa tcttgatatt cctcactgca atttatagac aataggcaca tcttttctgt 60
 ctttcatgct ttggtaaaat tttcatgtca tcttccacaa gaaaacatta attccttcat 120
 gatcctaata agtgggtgaaa caaataaaaa gcaaagggca tgtatgaata gcaatgagct 180
 gtacacacta gtgtagtgta aggatctttt tagtcccata ctaatacaca atcatctaca 240
 ttctaacatc tacatctatg ctataacaac aaaatatagg tgtacaaacc atcccaaagt 300
 aactcgttcc tgttcccatg tctttgatgt caaacgtggc agttatccaa actcagaagc 360
 tcaaaagaat gcaaaaatgg cccctccaat agtgtatctt atccaggaat tggtagcttt 420
 agctttgaga ttcatggctc tacttccttt ggttccttct gccattggac ttggaatctg 480
 gattctcagt catct 495

<210> 30922
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e05d1

<400> 30922

aacaaacaga tttttttata tccaaaatta gatttctcaa attagtaatg tcattgtaat 60
 atctagaatt cactataggg ttgttctcat caatgatggg cagccatcag tgatcagaca 120

tgtggcttat tttcttggtg tgctaggtac aaatttgata catgtcttat catgaaacca 180
 tgcttattat ttatcctctt caagtacaca acagtctttg gatcagaatg gtgccacttc 240
 acttcgagaa aagaatagac cagaaggacc tccattaggt agcagagcca accttacaac 300
 actttcagca ccttcatcaa cactaagata gccagtattg tagttgagat ctgttttcac 360
 aaagccaggg caaacagcat tgatgcagaa agatgggtac ttcttagcaa gaatccttgt 420
 gtaggcagtc aaagcagctt ttgagactat atatgcagaa aaagcatgtg gccacccttt 480
 ggtttctaataa gaacctctctt taaatctttt agaaac 516

<210> 30923
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e07d1
 <400> 30923

cattatatat attaagaaac atccaattga gaggaaggag taacttgtcc ttatgtcaac 60
 gtacaggtta cccatgcgac tttgaagaat gaaaatataa agacgttagg gacatagccc 120
 agaaaaataa tttggcactt caacttagaa ccatgtgtaa tatgaatcat catactgaga 180
 agaaaacaaa agaaaggaaa agaacatgac aaccaacaga agtgacatag ctaaagtact 240
 aataaataat aagctcatgt cagaaatctg caaagacggc aaaaagatca ccattgatgt 300
 aatcattgtc gaccaaacta accaagaagt ggctgcccc aacctcttca accaatttcc 360
 tggatgcc 368

<210> 30924
 <211> 163
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e08d1
 <400> 30924

gaagtgaatt tttttttttt tttcctggta tcttacaac aataaacaaa atctccattt 60
 cattatatga atgatacatg accaaataaa actaaaaatc agacaaaacc tgggtggcaca 120
 ttgaattagt atctccatta cagttatggg cgttgcattcc aaa 163

<210> 30925
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e09d1

<400> 30925

atgttcaaaa gatctttttc tccactttaa aggatggata tctaggagga tcagaagtgt 60
 ttgacaatga attaacaata aagctgagat accagattca aaagcattcc tcccaccata 120
 ttcaactatt acttacaatt tcaagattgc ccaagttcaa aaaagaagac aagtttgata 180
 cgcgaaacat aaataaaaca aacaaaatag tcagaaacat aaactagaaa ctatagggca 240
 tatcttttca ttgaaatttc aaaagcagca gaatcataaa acttattcaa acgcccattg 300
 gttttcccta cgaacttcct cctcttcctc aggggtgaag tcattcttga tgttgaatgt 360
 cttgcgaatt tctcaggag tctttccctt gatcatgtct gctactggct ggcaagtaag 420
 ggccaaaagg ctcttgatgt tcaagtagtt tgcagccaga atgagatcga agaga 475

<210> 30926
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e10d1

<400> 30926

gaaagagagt tttttatact atattcaatc attttggggg aatacagtat aattttcttc 60
 cctaaactga taatttcttt agtaaagaca ccaaagtaaa ttgcatagct atacttattg 120
 ctcatcttca gttttaactt attgtgcaca catcactcgg ttcgtgctct tacatacagc 180
 tctcgtttgt gttctgaatt acactcaggc agcaagtaac ttctggatat cttctcaat 240
 ttgaaaagga gacgttggtg gtgggtatct ttcaataact ttaccatttt tgtcaaccaa 300
 gaatttctca aaattccact ttataagatc acccaaaaag cctccagcac tcgatttcag 360
 aaactggtac actggagttg taaatggtcc attgacatca accttatcaa aaattggaaa 420
 ttctgcttta tatcgagtgc aagcaaattg cttaatatct ttatttgatc caggttcctg 480
 cataccaaaa tgattgcagg ggaaagctaa aatctccaaa ccctggattc ttatattttt 540

<210> 30927
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f01d1

<400> 30927

agaaaagaaa agcatatddd ttttccatta cgattcctga ccatttagag agaaaaaaaa 60
 agttagtccc attggaagaa gaaaaagcaa ctttctgggc agttggcccc gccatcacct 120
 acctagggt ttttcttttc acataaacca aacccttaaa gaaaaaaatt tttaaaaaaa 180
 agagtctaaa aactaggaat ttacatgaga aaatccttaa aaaaaactaa gggggggggg 240
 gatttttagcc aaagatcaat tttttttttc atgggttcaa ccccgatttt aaattacggg 300
 cgcagtttca tcgggatttt ttatttcatg ggaaattggg aacaagactc cgaaaaccta 360
 aatggtggcg cggatcgttt tctaaaacct cggactttt 399

<210> 30928
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f06d1

<400> 30928

gaataaatta atttggttta gcatttatcc atccatttca atctcgttcc tgtattcgtc 60
 tgtcattccc ttggaacat tcataaagac aagattacat tcttgaatag gaagagaaag 120
 ggggggtagg gatgatacac aaactatact atgggtcaaaa caaaaatgcc aataattaat 180
 ggggtatata atggcttata atcctgtagc tggttaatttc atttgaatgg ctagccttct 240
 ctttcatcat cttttggtct tgttgaagag cttgaacctg aggccattcc aatgacttgg 300
 ctgtgtgtga acctttgtaa ctgaatcatg cgcgcataaa tcccatccgg gtgatttttc 360
 aacaactgtg aatgggagcc ttgctcggct actttcccat catcaatcac agcaatcaga 420
 ttggcattcc tgactgttga tagcctatgt gcaacgatga tagttgtttt tcctgaggag 480
 gcgcggtcta gagcctcctg aacagacctc tctgattcag catcaagtgc acttgtggcc 540
 tcatcaagaa gcataagttc ag 562

<210> 30929
 <211> 328
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f07d1

<400> 30929

ggggaagggg aaccgggtcc catagaaaaa aaactttggg gggttttcaa aggccccctg 60
 gggaggaact tttccccct atgggttccc cataaaaagc ccccttaagg ggggggggtg 120
 gccctttggg gggttggtta agccccaaaa aattcccccc cttttaaaaa aaaaaaccct 180
 acccaatttt ttttccccca atacaaaggg ggggggaccc ctttgggctt tattctttga 240
 acaagagatt ttttcggagc aaatccaagg gccttttttc ttaatcccg aaaattaaag 300
 ggggcttttt taaaaaggaa taaagccg 328

<210> 30930
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f08d1

<400> 30930

gaacttgagc tttttattat atatatatat ggagcgagga gagaaaacat cacataaagc 60
 aagttttgca caccaaagta ctcattcatt aatagcaata tatagattct tcacaaccac 120
 gcaccactct cttgggtatat atggaacacg tatataaccc atattacttg gtggtggggc 180
 gcttcatact tttatttaac acacaaacat aacacgggta gggatgaaaa ccacatcaca 240
 cgaagatcac atagctgtta ataataataa caacacatgc aacataaaac cacgcacatg 300
 aagtgtagt gcttcctctt cgtttagattg gaaacgcctc aatgatggaa ggaagagcgt 360
 tgatcttgat gatgttgtaa cgggcgaaac ctgtttcttt gaacagccac ttccagttct 420
 cttccgtcct ctctttgccg cgggcgttgt gagcgagaag catcatgtca aatgcaatgc 480
 caacgtcggg gaagagttcg ttgccttcgg gccgcagcac gtgatcaacg atgatcactt 540

<210> 30931
 <211> 409

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f12d1

<400> 30931

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gggccaaacc aaagccgatg gttttataaa cccctaacc cggggggggtc atgggaaaac   60
aaaacattcc ccccccccta agggcccttt ccggtcctta aaaggaaaaa aaaacccggg  120
ccccccaatg gggacaaaac ctaacagggg ggggggggac ccaaaacggg gcctcctttt  180
tttgggcggg ggggggtcccc ggttttggtt aatttgcccc tgccctccca aaaacaaaga  240
aaacaacacc cccccccccc ggggggaaaca aaaaggcccc ccttccatgg cccccccca  300
gggattggga aaaacggccc ttttccgtta aaaaagggtt gggagcttcc accccgaggg  360
acccccctgg ggggctaccg ccaccgggtg gggaacgggg ggcccccca                409

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<210> 30932
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g01d1

<400> 30932

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ggtacatatt agcataagac aatttattat atatataatt taaaaatact gaacgaaaag   60
ctcatgaata tttcacaact tcctaattga gaaaatccga acagcttttc tacatataag  120
tgaaatactg aaaattgaaa tagaaaagtt tataactaa caagactctt tccaagaatt  180
atgtcatctg ttgagaaatc agcctctttc cggtatgttc ctctaccaa gtccagggtg  240
tacgagtctg caagaccctc tacaagccca aattcagggt cccaccaag cactctcttt  300
gctttctcaa ttgatgcaaa gaaatgctgg tcacggaatg gaaatgattt ctttttccca  360
aagtcaaaat ctttaggggt gtagtgaatg atctctggct ctgggaaccc accagcctta  420
gcacatgctc ttgctaattc gtcaaactg acatacttct ctcccagat gttgaatact  480
ttcttgctgg cct                                                         493

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<210> 30933
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g04d1

<400> 30933

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ggtagcgcaa aattcctttg gatagtaga ttacagtaag actaagggtc tcctttaaca   60
acttgtgaaa taaaaaactc atgctagaga aggcttttac ggtctatctt aaagctgaaa  120
ccatgaaaaa caaagggaac cgacagcacc gtcattaaat agtggatgtc atgcaaactc  180
acaactcgtc cttggcatca tcaacatcac catcatgaac cgcacagct tcaggctttg  240
aatcactttc agcctctact tcgggtgtcat cttcctcctc aactgttgct tcaggactga  300
tgtccaagct ggtcttaact gaatcataaa tacgggaagc aaaatccttg ggatcatcaa  360
gcaggaagcc actttcgaag agtgcgggtc ggtacatcaa ctgtgctgta tgtttcacac  420
cctcatcctc agggttcttt actactctct ctcggagctc cttgataata ggggtgcctag  480
gattgacctc aagaaccctc ttgccgcgca tgtatgcttg cttgctagca             530

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<210> 30934

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063g06d1

<400> 30934

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ctgtacaaag attttttttt tgatatgggg ggtctttggt caaagtctgt gaaagggtgac   60
aagggtgttg ctaaatacaga tggacattct gataaccata aatctgatgg taagaaccac  120
aagtcacca acatgcctag tgatttgaca agtgcagggg atcatggagt ggacaagaaa  180
aaacaagaag ctgatgctgc tgcagggaat ggttctgatg atttctatga tggaatccca  240
cggtttaatg attcttttcc ccacaagtct aggtcagtaa aatcaaggca tgctgtggca  300
aaggctcag aggtgagttt acgcctgggc agagctggta ttgacgtttt ggacactctg  360
gggagcagta tgacaaattt aagtgctggt gggtttgat ctggagctgt gacaaagggg  420
aatgaaattg gaatttttagc atttgaggtt gcaaacaacta ttgtcaaggg ttttagtctt  480
atggaatctc ttttaacaaa aaatattaag catt                               514

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<210> 30935

<211> 559

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063g07d1
 <400> 30935

atatagaatt aatttttgtt tactcttaac atgtaccata attccgcgat acaattatat 60
 tataatactc gataccacat caatgaggaa aatgtaacac cataagtgat actgatactg 120
 agtcataacc cttcaagaat tatagggaaa agtataggga aagtagactt aaaagactga 180
 atcttgctct ctctcttgaa tatgattaag ctcaacttaa aattaagtct tcttaggagc 240
 aagcttggcc ttgatgtcat caaccttctt agtatcaatc tggaaagcct gagcaagaac 300
 atcatcaggc acagttgggtg ttgaagtga aagagctgca gctatagaca ctgtgccagg 360
 gagttggctg ttgaaggcag aaagcacaga agcaggctta tccccattgt tcttctgata 420
 gtgcacaaa ccttttgga acacaaagat ttcacccttc ttaattgact ttgagatgag 480
 tttattggct gtggtgatga atccaacatc tagttgtcca tccaacacaa acacaatctc 540
 agtggcacca ggggtgtgtg 559

<210> 30936
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063g10d1
 <400> 30936

aagccattct tttcaaaact ttattacaaa cttctttatt ggacatccat gtccttctct 60
 tcacggagga cagaatcata ccataacttt atttcaactt aaactagtat taggaattaa 120
 ttgaagtaaa actgtataaa accgcaatat caagggttta atattttact tattaggcac 180
 cttaatatac cccacatgtg aggaattggc cctctagta agggtttgaa gatcataagc 240
 tacccaacac cttgaattct ccttgtggta gaaataaccc acacacttgc aatccttgggt 300
 gcatttgttt ccacaagtac tctcactcac tctatccct gtagtgtatt tgctcatgta 360
 atgctcaact ctttcaattt tgtagtagtg gaaatcacta gccttgcattg atgtcacagc 420
 cttggcagtg caattgttgc tccaaccaag tagtccattt tccaatggac aagccacaca 480
 ttggttatct tcacacaacc caaatttccc acatctctca ggcaattggc actcactctc 540

atcagaatct cta

553

<210> 30937
 <211> 182
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g11d1

<400> 30937

ggcttatgga cccccactgg gcggggtttat gtttagatta ataaacaggc caatttaatt 60
 caatagacaa ttgggtacaa aatgcattgc atgggggggg cattctaaag ggaacgtaac 120
 aaaaatgaag ggggggagga ttaaaccagg ccattggct acgaaaaccc atttggtgga 180
 gg 182

<210> 30938
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g12d1

<400> 30938

gaacaaaatt tctttcattc tcattgatga ttgatcgtgg cgcagtatct acaaccatta 60
 acacttaaat gtcttggtgg aaaatacaaa gcatgcaact gagatttcaa gtgcatgtga 120
 aatctcttta ctcaaacact attataacac tggcactaga cactttgcca attaagacag 180
 acagaaagaa aagagcatgc tatctatcta catctattgg aaaatcaaaa ggaaaacggg 240
 tccaccaaac attttgtttc accggccttc agcagaagta aaagaatctg caaatccagt 300
 aggcccttgca gggatactac tatcagtgtt tagggggccc atataattaa actctttttt 360
 ttgtgcctgg ggccatccct acaccatgtg gaggggggga gggttataat aaatgccgga 420
 atactcctgg gtgtcatca 439

<210> 30939
 <211> 517
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063h01d1

<400> 30939

agaaaccgaa gagcaaagag tattattagg cgaattatag atgtcctaataa tttattgaag 60
 gtagctcatc atgttttttt tatgcttctc ataacagact ccattcactc actctatgaa 120
 cccaaccaa ccaaccacat gatactgata ttgaaaagga aaggggaagg gtttcgaaat 180
 gatataccta acaccacaat cccctaaacg acgacacgag aaagaaaaga agagaaaaaa 240
 aaggctaaaa cgacaccgaa agaaataaca cagattcaga gattaaagcc gcgggtcaac 300
 gtcgtctaag agagttgacc gcagttggcg atgacaacgg gcttgagggt cctgccggag 360
 ctggatccga cttctcgcgc gtccttgaca acgttcaatc cttcgatgac ctgtccgaac 420
 acgacatgct ttccgctcgc ccactctgtc ttctccgtgc aaatgaagaa ctgagatccg 480
 ttgggtccgc gaccggcggt cgccatggag aggatgc 517

<210> 30940

<211> 508

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063h04d1

<400> 30940

atatcacaac aatttatatt ataggaaatt ggatgatgtg ggtcttggtt gttggagtaa 60
 caaaaatatt ggaattggaa acagtaagat aaacaccgta taccttcatt cgaatgcac 120
 acattaccaa tggacagatt aaccagcttg gcggaaccaa gcaaaggaaa atattctaga 180
 caaaaactgc aacccaagct gcttgaaaga gacaaccaa atcaagtgtg ttaataatat 240
 taaatcaact tcttatcaga acccctaaga ttcaaattaa accatttctt ttgcctgat 300
 ttatccttgc catctgaccc tccatcttcc ccggggctct cgtcgccatt aattttgcta 360
 gaacttccat tgcttaaatt actaccactt ccactaaaat tggttgactt cacagtgggtg 420
 aaggaagaat ggataccatc cttttgtttt agaagctcat ctacagattg tttttctttt 480
 gtgtatctgt ctgtcacttc ctgatagc 508

<210> 30941

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400063h05d1

<400> 30941

aagaaaatat gcttgtcaga aacgcgtata aatggaagga caaactaaaa tagcccagta 60
 catccacaat tcataacgaa gaacacgaat gcccaaaatc tcagtaacat tgagattagc 120
 attcaacacc ttctcccttc tgtaatgttt tcaaaggag nnttnntgtc tngttagtgg 180
 ccccgtcagc gaggtcatt gcgtaaccct cctactttgg gggagggttac cgtactgtga 240
 tgtgctccat agcccccaaa ggattacgat gcaa 274

<210> 30942
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063h07d1

<400> 30942

aaccattaat taacatataa aagcatatgg gatttcagtc tttaaagccc gcttttacgt 60
 gacatccatc attgtaatga ttcccataga aaaccctcat tctaaaagtc ctagaaagaa 120
 agcatgtgaa ttaacaaaaa aaaaaaaga aaaaaagatg aaagcccctt cgtacacaca 180
 caagcttcct gacacaaagt agtaataatg tataactggg tattattttc ttctttttcc 240
 tcctttttcc ctttttctct cccaaaaaat ggtgccccag cttgaagtca tggttttgtt 300
 gatcagacat tctccgtaga tgaagggaga agtggctgag tgagtgatgt tttggcatgg 360
 cttgaggacc tgatgccact gtgctctggg gtggacgtaa tagcagcatg ttcctttgca 420
 aactttctct cttcgctttt accccacaag acaaagtaca gtcccacaac gatcaacact 480
 gctcctatga tcctt 495

<210> 30943
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063h08d1

<400> 30943

aagattcctc taatgagcct tgcctattac tgccttccat atgtaaatgt taatattggt 60
 tttggttcaa ttttctttaa caaaagaaaa attataaaga aaataactat caaagcacag 120
 gtaaagattg atacctttat ttccatgtga aactttttat acatcagcaa gaatagcctc 180
 tatttgcagg atatttctat ctctatctgc cttcactggt cattagtgtga gaaaaaactt 240
 cggtagcact tatgtctgaa taaccattac cattatctcc ctctcttatt acgttactag 300
 aaggactccc aggaattatt gtagttgtca cattcactgt ttcccagaca ctgctatcat 360
 catatgactc ccttcttgtt tcactttctt ggagctgaag tgcataattcc aaattccaca 420
 atacagcacc cattgttggc ctatcaacac catattcagc cagacatttt t 471

<210> 30944
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063h09d1
 <400> 30944

acgacaaaat ttgttcattt aatactctga gctataaaga gggaatccta ccataaaggc 60
 taactccaag ataaaaattg ttatcaatgg tagcatacat tacataataa agaagggtgt 120
 cgaaaggaaa taaaaaatac ataacatcga caaccgagtc tagctaagca atgcggggagg 180
 gatggagcaa aaagtgagga agatgctgtt ccaaaacgac cactagctct ctaccatggg 240
 tcacttcatc caaaacccta tttccaaccc tcttagcggc ttcaaccagt tgtcccctaa 300
 gccgttgtga aaacaagcag ccacctgtct tgacacactc tctataaagt gggaggtaag 360
 caattgccac cgtcagtggg gccggaagat ctcttaagca aataggagac tcacccatt 420
 taatgattct cacaagggtc atgtaatgct cttgcccta 459

<210> 30945
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063h11d1
 <400> 30945

agcaccaatt ttatatattga atttatgtgt aaaagtattt gagggggggt catatacaca 60

cacaacgatg gcaacaacaa aattactgaa aaaacagaga aaaaaaatat aagatataac 120
 gtatacaacg ctacacagata aatatattct gatatgataa cagtgcacta atatttagta 180
 tcatttattc ccaaagggtta acttaaattt cttcacaagg ggggccttcc aaacgaatat 240
 aatcatacat gataccttgg aagggactgg tgcattctgg ttgcgaaaaa tatatgggat 300
 ttgtgccatc aacaagaaga gaacctggta tattcacatg gtacagtcaa tagatccctt 360
 gaattccatg tcttgaaatt gagtttggcc ttcctattaa tccactggaa aatacggggt 420
 cgccttgcac tggggatcat tttac 445

<210> 30946
 <211> 306
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063h12d1
 <400> 30946

catattctat ttacatacaa atatgtggcg gcttacaaaa ctctaaatct tctagggttt 60
 acttaacaaa actaggaaaa atagttaaag caaccagcaa aacattgggt actagttaca 120
 caaccatgcc attgacctgt atgaatatat aaaccaatga cacgagaaaa gaaaatgggt 180
 tttgtgatct ttgcagccat taaaggtagg ggatttaaaa tagtcacaat aagataccta 240
 cctacaaccg aagaatgggt cgaagggtgt cagatagatt ttgaatagtc cgctgctcct 300
 gggtcg 306

<210> 30947
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a03d1
 <400> 30947

aaataaatta aaaatctcct tttgtaaatc aaaccattaa tcaacatata aaagcatatg 60
 ggatttcagt ctttaaagcc cgcttttacg tggcatccat cattgtaatg attcccatag 120
 aaaaccctca ttctaaaagt cctagaaaga aagcatgtga attaaccaaa ataaagtaaa 180
 ataaaaaaga tgaaaacccc ttcgtacaca cacaagcttc ctgacataaa gtggtaataa 240

tgtatataac tgggtatcat tttcttcttt taatatcttc tttttccctt tttctctcag 300
 agaaaatggg gccccagctt gaagtcatat atggctttgt tgatcagaca ttctccgtaa 360
 atgaagggag aagtggctga gtgagtaatg ttttggcatg gcttgaggac ctgataccac 420
 tgtgctctgg agtagacgta attgcagcat gttcctttgc aaactttctc tcttcgcttt 480
 taccacacaa gacaaaagtac agtcccacaa cgatcaacac tgcttctatg atcccgccca 540
 agtagaact 549

<210> 30948
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a05d1
 <400> 30948

gaactgtgga ccaactgttta ttgccaatcg ttgtgaaata caacttcctt tgaagggata 60
 agactttgat gttattgtga aatatgacag aattctcaca atattaaata aaaaaataac 120
 ttgtacttct tgaaaattact ctaggccttg ctgatatttc agaggatgat tatecttatt 180
 gacagaataa ttcaaaaattt ggcaaaaagaa aatatgttgc tgcccttaac aaaatgtact 240
 ctaccagatt gccaccacca atggcttggg ttttcgattc agtatccatc aagtgcacaa 300
 tatatgattg caatttacta atacagaaca gctacaatac tcaagctgct taatgaattt 360
 tattgattaa atgcacacaaa cgaaaaatgt tctttttttg ttttgtttcc tttcagagac 420
 aaagggggac tactctgcaa atctgaacta gagaatctca atagacttca acatgccatt 480
 gtttgttctt cttaagttga gaaagct 507

<210> 30949
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a06d1
 <400> 30949

gaaattaaat ataattatth taaaatcgtc agattacaac acatactaaa aaaggaatgt 60
 accatacagc ctaaaatgga gttacttatg gaccacagca aatagcttgg ggactgccag 120

actacgacca tggataagaa ctcaaagga ttaccaatTT accatccacc aaagtattaa 180
 ctgttcttat aaacctaaga ataaaaagta tagactaaaa ttgatgaaat ataaaatgct 240
 aaaacaaaca gcatttcttt acttttccca aaaatgatgg gtatttatga gaaaagctat 300
 ttacacaatc aattccaaca caactgggta tgtgtctgcg tccaagattt tgcgcaagaa 360
 aaaaaagggg tgagagcctt tggtagaaat cataactcat atgcagtcac attagcagtt 420
 ttgcgggggt gtaagtagca ttactagcga ttctataag tagcacacat atattcgtgc 480
 cactactaga cttcatttag cccaacatac aggacgacac agagaaccag agacaactgc 540
 catgggaaaa t 551

<210> 30950
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a07d1
 <400> 30950

aacaacccta tcattatTTt tataagccac atgataggat ttaatattag taacatttga 60
 catggaacat atttgcgatt ctcaagaatc tcaaccacaa ctaaaccaga acaacaaaca 120
 aacagtaaag catagaaaaa ttggtgtctt caaatgttt gacaaatgga tacagcccct 180
 tcacttgcag atactttctg gtggcatgca aatttagctg tattgaattc atgaagtgtc 240
 aacaagtgtg tcagattgtg ctccccattc agtccaagat ccatcataaa ctgcaacatc 300
 agactttcca agacgatgaa gaccccatgc cagaatgcaa gcagttacgc ccgttcaca 360
 tgaagtcaca gctgggcttt ccac 384

<210> 30951
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064a08d1
 <400> 30951

gatgcatgaa cacaaattga atttgctgct ttattactaa taattattgc aaacacaaca 60
 acagggtaca acacaaaaat gccacaataa atagaaaagc aatcatacac gaccatatta 120

atctatgaac aaataaatta aagagatcac taaaaatgga ctgtactttt cacatttact 180
 tggcatttac atttcaaata tctctttcct gtttggattt gtccgtcact tgaacacaat 240
 aagatcagga cgtgcaagat ggccatcaaa caaatagaat caacctgac tgaatcataa 300
 acattgtagc atagagatga cacattcaga cttttattca aagaacttag acaggaagat 360
 agatgtttca cttggctcaa aatagagctt gcctttattc ctogatgaaa actagaacat 420
 gattcatcat gaatggtgct ttcacaattt gagcttactt gtagataggt ggaggtggng 480
 aagcatagat ataaaccgga ggtggaggtg atttgtaaat gtacttggg 529

<210> 30952
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064a09d1
 <400> 30952

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 gtagttcctc tgtacatgaa aatagacgga tcataacaat catgccccaa tcaactctcaa 120
 aattcatcca ttcaggatta cacgagaagg acacaggctt atccatgtca ttggatacaa 180
 acttagtagc cacgaattgt attgatgatg gtgttggtgcc acgggtcaga gaggtgctgc 240
 aataggttct caaatggtcc tttgcctgtc acgttggtgtt gaactatgaa tcccaagaat 300
 gccaacatag ccaatctccc attggcaagt tccttctcct tggcctccaa agtaggtgca 360
 aagttcaagg ggttaaacac actaccaggg tatccacact catgttgggg caagctgtat 420
 tgcttgaaga tgggggtcttg gttgacagag ccagggttct tgatgtcctg ccactctcgg 480
 atctcgacgt agtgaacaa gatgaactcg atcacaaga gggtcgacga tgaagcanag 540
 tactncgatt tcccagcatc atacca 566

<210> 30953
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a11d1

<400> 30953

gacacataaa ataaatgaag catttatata taaaacgttg atgtaccaga gtccaatcac 60
 attcaatgta tgaatgcttt attttctctt caaggattca ttgtacaatt catttgtttg 120
 atgtgcttcc gacctcagcc aaattggctt aacaaagaga cacaaagagg aaacaaaagg 180
 ggaaaaacta aaaaataagt cccaagtcct agatctcaat ctacaagaat agaaaaagct 240
 aaaaaaaatg tctcaagaaa atttacaact tacaagggca tagagacaaa actaacaaaa 300
 gttgaggcaa cgaagcgaag agaagaaatg ttttgaagta aaaagagaaa aatgtataac 360
 aatcatgtta atagaaaaat tgaggaaggt aagggaaaaa aaattaggat attgtgaaaa 420
 tatgttatac tct 433

<210> 30954

<211> 572

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064a12d1

<400> 30954

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 tacgttcgtc cattcaccca aaaaagaaat ataaaaatat atgatacaac gtatacgttt 120
 gctcataact gtatgaaatt ggtgtaacag atgcaagggt cacgataaga acttgtttct 180
 cccatagcca ttaatccaat agctaataca tctcaagcat acagggtccc ttctaagtca 240
 actggcataa aaaatgattg ccacgcccac cttccatggc tccaagcatc aaggttcaat 300
 tcaaagcaaa atgggcttac ctatttgtct tgtctcctcc atgcattatt tccatgcaca 360
 tatcctggat caacaacaac ataatgaggt ggagcatttc tcaagagtgg caccctgtca 420
 ggagcatatt catcatcact gtcataatat tgatgtggcc ctagtgtttt gagtatcatt 480
 gccataata aagagagtcc ctgtacagaa acaagtgaca ggccctacca tttgcacatc 540
 tcataatttg acctgataaa attcttgaac tg 572

<210> 30955

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b01d1

<400> 30955

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 attctttaat catatgtaat ataataatgc cctaaatcaa gggtagattg attattaatt 120
 aaatagttac gtaattaatt acatatattc tggagagtcc cataaagatt catgctgtat 180
 ttcttcccat ccaactcaact ccaaagcata atcatcatca tcagaaggca gcatcatcat 240
 agagtgatca tcgaaaccaa acctgagtgc ctctgccatt tgcaccatcc acatctttgg 300
 tgagtccaat ggggactcat tgatggcctg aatttgtgtg ggtgagagtc ccaactctcac 360
 aggaaccaca ctacccttaa taatgttatt gtcattgaca catccttgat gattgttaat 420
 aggtgacatt gttggtgata ttctgaacat caccgccgct tgttgtgctg ccacttggac 480
 atcttcgggt ttcgaactcg ttggacgtgg cagcg 515

<210> 30956

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b02d1

<400> 30956

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 caatacagtt tctaaagtgg ctgcaacatc ccgcaggtaa aaactaaaac agaagcattt 120
 ttaacacata catatgtcca aaaatcaatt acaagccaat tttcttaaag gaagaaaaca 180
 cagtcacgga cacttagcag tatttgcta tatcccaatt aatgctacta ccagcagaaa 240
 acctaccctc cctaacaacc ccatctattg aataaaaaaa ggaatctgaa aaacaaaaac 300
 accaaccgca gccaccaatc atcttcatct ttccaaccac caactcaagc acgctcacca 360
 cgaatccttc ttgccagctg aatatacctt ggcataatgg ttacacgctt ggcgtgaatg 420
 gcacacaggt tagtgtcctc aaagagccca 450

<210> 30957

<211> 333

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b05d1

<400> 30957

ggaaccctcc aaatagaaag ggggcattta ataaaccaa gcaaccaac gcagcaaagt 60
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 taaaccaga ttaataaaag caattttgcc accgtcgatc aaaaaccag ttttggaac 180
 aaccattgcg agaagatggg ggagacttaa aactttgtcc gaaaaacaag cttccttgaa 240
 aagaagacac ctggggttcc gaaaagaaac caaccttttt tgggaccaac atcccctgga 300
 gaaccgccc cgccgaata cttttttttt tgg 333

<210> 30958

<211> 356

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b08d1

<400> 30958

aaaccggaag gggggggcca aaaaccccggt taaaatgggc atgaatgcc cctaacaaaa 60
 aacccaatt tttaaacct cgggcccaa ggggggggtt ttttttagt tcggaaaagg 120
 gggagcaaaa aaatttacc aatcaatggc ccctccccgg ggggaaaaca agcccaaatg 180
 gctttcccc ccaacaagaa aaatttaatt catttaccat aacctttta cccccaaaa 240
 aaaaacatgg gggatggtt tttccaggct ccaattttta accaagcaac aaattttgaa 300
 ggggacaaac ccatgggacc ttgaaaggc cccttttttc ccacaatgtt ttaatt 356

<210> 30959

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b09d1

<400> 30959

aaaacacaat atgccagcat acagttgata attatttttc agtccccaa attgataaca 60
 aacggtggtta acattaagg gacaatagag ttcaacacaa accaacctta ttttcaagg 120
 tcattacaga cccattacac ataaaatttt tttttaaaag gttggggaaa atccaacatc 180

gaacatcaca cagaaatcag ctccggttta aaacccccca cgaagacgca acaccaaggg 240
 cagagttgac tccttttggga tgttggagcc agggggggcc cttccatcct ctagctgttg 300
 gccagcaaaa ataagccttt ggtggcccgg ggggattcct tccttggccg ggatcttcgc 360
 cttcacatt 369

<210> 30960
 <211> 347
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064b11d1

<400> 30960

ataaacgtaa aaaaaataat tcgcattctt taggctacgt taaatacaaa tgggcaacat 60
 ccgcattttt tatgatacta aagtaatatt tacggtaaaa agttactaat gtaacatcac 120
 cggtagcttc ccagttaata aagggataca cacattgtaa aactacttat ttgccaaggc 180
 acagagaagg gggtaagccc ttgcctagat tagaaccata ttggttgggg gaccaaactt 240
 tagaacagaa ttaggaatga acttgggtccc ttcgatttaa aagggacccc ccttgggtat 300
 ttttggggac ccttaactta aacttgtttt tcttttggcc ccttttg 347

<210> 30961
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064b12d1

<400> 30961

agaacagact taattttaat ttattgcaat caaacacgt tttttttaat aaaaaacagc 60
 atttctcaaa cacgcgtggt tgagaatttg aataactccc aaacacgctc cttacatata 120
 gaactgggga tatgaaaaaac aatatcatcg gttcttttct gttattcctt agtatatatt 180
 tctgccccaa ccaaataatg gattggtttc gtataccatt gtgggggtag atttgctaca 240
 agatgcattg caatagggtt tttacttcct tcttccaaga ttattaagcc atgttgtaag 300
 ttgacagcgt atgctgtgca ttgtgatagc tagaagaagc atgctaactt tttagtatgt 360
 tcggggacca gctgaagctt tcagcctttc agtgctcttc taattagatt tgaatcatat 420

ccgcaagaat tggattataa agtcatttgc ttgcgcagat tagaatttgg catagtcctt 480
gccggtctcc aaataatgtt ttctagtttg ccacaaaa 518

<210> 30962
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c01d1

<400> 30962

atctcaacaa acaagaaaat caatacaaac ttgattaaga taccatatat atagtactag 60
atataaatac acatatttcc cagaagatcg acaacctaata taatagatac atcatacatg 120
catcaaacta gttgaagaag caggggcttc aatttcatac ttaattccca cccaaattaa 180
agcacttaat cttccatgat tgccaaatta attaagtagc ccatgggggtc cttcaaaaac 240
cttgtcatag gaatttttct tttcttattt ttgaaagaag aagaaaaaaa aaaaaggact 300
aaaagctctc acagcctatc tcatcctcca agagcaactg gttacagtta gccgggggat 360
gaagatactc ctcacaaaca tcatcacaag ccaatttccg agca 404

<210> 30963
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400064c02d1

<400> 30963

ggctcaacaa atacaaatat tgatgcaaca tttagataat tgcagacatt ttgtcctcta 60
ttgtatgtta caatctgctg tgatacagga aacagggtat tctacataac catcgggggg 120
ttgggtgata atgagtagca tgtatctcta aatctgcttt tacagggcaa ccgaatacaa 180
taaagatacc aacaaaaata tcatattaaa tagaaaagga aagcgcagca ttctcatatg 240
gaaacaacac ttcacgagcc tagaaacggg cattgcttcc ttgcatgctc tggaaccaat 300
ttcaccaaaa tctcagatgg gactcctttc agttcatggg atttgaaatt aaatagtggc 360
ggaaggaatc ggccatttgg caagcgagta tttggatcac gaagctcgtc gaagaaagga 420
tgcgtaagg catcaaaagc tgtgcaccgc aagttagggg agtattgtag tagtcttgat 480

accaaatacaa cagcctctgg aggcattgcgc ttattggaaga tctngtgcca tggatgtgct 540
ttaa 544

<210> 30964
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c04d1

<400> 30964

atagataaaa aaaaagttat tagaattaca gatataccct ttattgataa taaaaatggt 60
atgtttacat ggtagacaat tatcatcctt tatcagggtg cctaccctta cactttggaa 120
cctttttaa atcaatcac agcttggttt ttgttgatgc aacaatcgaa ccatacttt 180
gatgggttga gatctcaa acacaaagcca tgagtgaag tgacacatct cgttcaataa 240
aaactagata actaataaag tatagtttgt agtaataaat aaataagcat actcttttaa 300
atgaatctat acgtctggac gctcattctg atcaaaaata cgattatggc aagtaggggt 360
gcaagggtag gcacaatcta tctcacggaa gggccttcga tcataaaacc aatcaccac 420
tgcttttga attgatgtct tggccaccac tggggagtca tttctcagcc atgtctcttg 480
tattccagtt tggcagtgtg cat 503

<210> 30965
<211> 588
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c06d1

<400> 30965

aaagatccca aaatacatcc tcagtaagat cctcaaaaag agctggtgca tgttacttct 60
atgtcgagaa gaactgatta tgtgggaaca attaacttag ataaccgaaa agcaatacaa 120
acatctatac aatctgccgt acaacaagca ttaagatatt atagttagtt ctccaacatc 180
cacaatagta aactctgctt tcgtccttcg atgacacaac ttactgttca ttccgaagca 240
aaatcaaaaa agggctccag cgtcttcaat aagcaacctt tccacttcct aatgctgcaa 300
atagttagcc tccagctaca ggtgttactt cctactgcta caattatctc ttccttagcc 360

agaataagat acaatctttc agcagtgcta caatattgtc cttcgcatte gaagcttcat 420
 gaaacttttc agtctctgcc gctatcttca tcaccgcat cagcattaac atcaacggtg 480
 aaaccatact cctgatcaca acccaagtat gaatcacaca tgaaataaag cgaataggat 540
 ttccttccag catcagcagg agcatcaaat tccagtttgg cttttaat 588

<210> 30966
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064c08d1

<400> 30966
 gatagaaatg catgaaagat tactaattcc agagaatatt caataccaaa gcataatatag 60
 aaataaaaaa ttaacaaaaa ataatcccaa aaggaaaagt ttgacaagtt accaaaaaag 120
 ggtctccaaa ccaaaaacca atacaaatgt tttcatcctc tactcttcca atattgttcc 180
 cttctcgctg acataaatac catcaagaaa cttccggata tccttggttct taacatgaca 240
 tttctggtta atgagagcac atgacctaga aacaagttca atgtcgtttc catccaagac 300
 caattcatct ttgacctttt cagatctaac aaccgacacg ccctcaagca tgtccacttt 360
 cctcaccttc ttctcgccga ggaaatttct gatctcgatg gacttgetgt tgttgccaat 420
 gctagcggtg atcggaaaat gtgcgtacac gaatctcatt ttgtatcggt attccttggt 480
 gacgccggtg atcaaattct caacgtggct ganggcggtg cggatggcng cggagggtttt 540
 ac 542

<210> 30967
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064c09d1

<400> 30967
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 ttcagactga gatttagatc acatcaatag aatatacatg agccattact gtttttcacc 120

ccacaaaaaa gaaagtgaag aaatatacaa aagcaaaacta ttgactaatc aatataactg 180
 tgcgatctta cgagtctaca actatgcaca acctatcata cttccacatg taacaaaatt 240
 ggtagatata caatttcttt cccttcacca atgagtaaatac tggtaacact ttttaataagt 300
 gctccagcga gatatagaaa caacagctcg aaaaggacaa cagttcatga caacaatcat 360
 tttgccaaatt tttctgattc ttcggcatta ctattctcag caaatgagtt taaaaactga 420
 ataccattat gcttttgagc tgaacttccc ccaccatgat cgccgacttt tttccgtttc 480
 tgatttataa agccttgttt tagtctcgcg taatctaacc ttgtatggat tcttccatcc 540
 ctcaaatttc tggttaagtt tcc 563

<210> 30968
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064c11d1
 <400> 30968

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 ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120
 ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180
 tcaactacac tatcccaaac cgatactctt aagactttga acttcaactg tactctagga 240
 tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300
 gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttggtca 360
 tgtaactaag gatggtcgca aactgggtgg aatgagtgga attttccctc attttcagct 420
 ttaaactcga ttcgagtgtt gagctcagca agaaggacca agtccaagat aataggagca 480
 gctaacagtg aatcctcaca tgtgttgtgc aacac 515

<210> 30969
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064d01d1
 <400> 30969

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 acacccaaac aggcaaacaat gacttttagta gaaagaattt tcaaagtatt gcacctagct 120
 tatttttttt acattgccaa agcaacctaa aattgattat gcttggtatc caaagccgca 180
 ttgaatttca acacatttcg agcacaaaat tctaactaaa tcttcatcca aataacaagt 240
 taaaaactgg agggaaaaaaa acatcgaccc taattgagta tctaattttc cgtcaagtgt 300
 tcgacgattg tctcaatctg cgaagctgat caatccatcg atcatcagca tctcgaccag 360
 cccaattggg aaccactcc 379

<210> 30970
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064d02d1
 <400> 30970

acaacaaanc ctaatatgct gtcacataa tatattgccc actaaaaagt ttatgacacc 60
 caatctcgta tatagaatta tacgtaagaa atactcaggt attatatgct taaatgtggt 120
 gttccatct ttcaggatta gaagacaaaa gcatacagca ttgcactagc tagtagcgac 180
 ttttgactt ttccatggct ctaggtgcta gccaattgc ttcagaactc ttcattatcc 240
 tcagcctctt gcaagactca gtgaacatct cccacggaac atcaccaact agcatccaat 300
 ctccatcctt gtcttcatag gtaagaacat attctgaacc atgaaggaga tccatcaatc 360
 tactttcact taaattttcc cgacttgaaa ccccatatga gccacattga ctgagtgtaa 420
 aacaactaaa catcttttca agtgccaaag agaggctcctt gtaagtggta aaactattca 480
 gatccacttt cctcaaataat ggggcgcncct ccatgctgac tntaacataa ag 532

<210> 30971
 <211> 591
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064d03d1
 <400> 30971

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 tagcacactt tacaaataaa ttaagagaag aaaaaaaaag catagaatgg agagagagaa 120
 aaaaaagaga gatagaaaaa gaaacatgaa ttacaaaggc catgacttga atcagatcaa 180
 aattcactgg aaagaggtgc atggtcagag cgaatgaaga cattgccgta gataaggcca 240
 gccaaaccac caccaataag aggtccaacc cagtagatcc agttgtcatg gaagtcacca 300
 ctaacaactg caggcccaaa ggagcgtgcc gggttcatcg agccgccaga gaatggccct 360
 gctgccaaga tgttggcacc aacaatgaaa ccaatggcaa ttggtgcaat ggttcccaat 420
 gatcccttct tagggctctgc tgctgtggca tacactgtgt acaccaaacc aaatgtgatg 480
 atgatctcgg tcacaactcc ttcaacagct ccaacccag aagccacact gtggattgga 540
 gttggcaagc ctntctgtgac atagttgaga agaaaacatg ccacgatgga g 591

<210> 30972
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064d06d1

<400> 30972

gggaaacaaa tttaaaacag tttgaattcg aatattatag attacaacca ggaatcaagt 60
 gctagatcga gactgaaaaa ttacaaatta aaatgattca aattttcaac aatctttctt 120
 gaagaacaag agcattctct attcacatca gtaatgaaaa cctaactaca actacagagc 180
 ataattatca aaactaaaaa agaaactaca aaacagagag gccaaaagat aatctaaatt 240
 tgataataaa aaaatcaaga aaagcgaatc cctatttaag agtcacgctc agcagcagcg 300
 cccttggtatg agccaccggc cttcttggaaggaggagaagat tgtgaatgtt gggcataacg 360
 ccaccgttag cgatggtgac gtcaccaaga agcttgctca attcttcgctc gttcctcacc 420
 ggcaattgaa t 431

<210> 30973
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064d08d1

<400> 30973

aggaaaaaaa atcacgaccg aattcatatt cagaacatcg ataatttaca acaacttaac 60
 tcgggctcat tctttattga gaaagaaatt cagttcttat actgaatctc atgcacattt 120
 ctaaattcatt ctctcattct caaggtctat accattaatg ctccctccat atttctacca 180
 acctattcaa tgcaactact ggggatccac cttcagtcac tgcttcgggg gcactgggtt 240
 tcattttgaa aatcctctgg ctaatctctt ttcccctatc cgagttcatg agctccttga 300
 ctggggcacc caactcgggg gaactcacta acccggttatt gttttgggtcc accggcaacc 360
 ccacctttat tttcttcacc aaaatcacc tattcagctt ctgctccgcy taaaaaggcc 420
 acgccaccat tggaacccct tcacaa 446

<210> 30974

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064d09d1

<400> 30974

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 actcatgtaa ccttgccaat aaaccatcac ccctaaactc cagcaccagc agcttgctca 120
 cttcaatata caactcccag aatttctcat gtcaccacgt ggcaagcacg ctgatgtgga 180
 gccaaagtgtt gggcttacac gtaggggtac cctccataat acaaccaaag acttaagcct 240
 catataataa tattaataaa ggaaactaaa gaaataaaaa gaaaaaaaaa aaagaggctt 300
 ttcaacatgg catgcaaaat ggtagacctg atccccacaa ctaggaccat ttttaaactt 360
 gtttttctca ctacactgt ccataggtct aagcttcagt cttctcaaca ggaacctcta 420
 ctgggggttc aactgactca gctgggttgc tctcttctc tgnggctgct ggtggtgctg 480
 ctgctgctga t 491

<210> 30975

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064d12d1

<400> 30975

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atacataaca tacattccgg gaataaacac aagttcagta atttgttcct caacaagttt 120
taaagtccaa gggaaaagcc agcttatttg catgaagttg ttaatacaca aaccctcat 180
aagttataaa atcataaacc cttaaaacca ggaagatcaa tcccctggaa tggggttttc 240
acttaaccac acttcaaatt ttgcaattta agggtcattt tttggacaac cttgccattg 300
ctataagtta tgcagctttt ggttgccagg caattatgct tgggtggggtg tattcttggg 360
actaccgcac catttgggag gccagttaag tttattttca aggcctcttt aaagggaaag 420
aagggaaatt ctgcctctcc cattttgtca tttttggtaa aaggggcagg 470

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<210> 30976

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e01d1

<400> 30976

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ccaaatatct ttacagcctt aaaattctaa tgatagcttc aattttttcc aaaaatgatt 120
gaataagatt aagttaaggt tcaacatcta actttatgcg catggcccca atccatattt 180
cattcgacaa cttaggaaac tcaagatatt ttcctaata atcaacattg tttccccatt 240
tgtagtctga attgtggcct tgggtgctctg taggcttaag tgttttctca tttcctgaga 300
cctgccaaac tcctcaattt ttgctttaag ctaatggcgg gaataaacct attcgcggtg 360
agatgagaac gggtgaatgg attagtacta tcactaagaa gatgcctctg aatgacagga 420
cgatc 425

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<210> 30977

<211> 501

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064e04d1

<400> 30977

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aagcaactac acatttagtc cacttcctca atcttggggc cagcaccact tccaccagaa 120
ggagcagcat aatcatcctc ggctgcccc a gcaccagcac caccatgtc aggaccagca 180
ccaccttggt acatcttggc aatgatagga ttgcagatgc tttccaattc cttcattttg 240
tcctcaaatt catctgcttc tgcgagctgg ttgctgtcta gccactggat agcttgcctca 300
attgctcct caatcttctt cttgtcagta ggatcaagtt tctcaccaat tttgtcatcc 360
ttcacagngt tcctcatggt gtatgcatag ttttccaaag cattcttggc ctcaaccttc 420
tttttgtgct cttcatcctc agatttgtac ttctcagcct cttgaaccat cttctcgata 480
tcttcctttg acagtctacc c 501

<210> 30978

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e06d1

<400> 30978

ggaaaatctc aaacttttac catcaaaaaca aaaaacagtc ctcatcaaaa acaaacagca 60
acgaaaatgt ttccgccgat caagaacca gttttgaagg ctacgggtac atgaaatcgg 120
ggggcccttc aaaatataac tgggaaaaca aaccctaag actttgcaa gataaactcc 180
tggaaggaa caagtttttt tgaaaccccg ttgatgatca catgggctag caaaattgcc 240
aaaatgcaat cacttttttt tggggggagc ctttgggacc ttggctccgg gggggtcttt 300
cttttcaaca cttttgatga ctccaacagc tacgggctga cgcagtgtcc tcacagcaaa 360
acgaccaagg gggggatact cagagaaagg ttcaaccacc atgggcttgg ttggaaccct 420
tttaaccata ccagcatcac catttcttaa aaatttgg 458

<210> 30979

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e08d1

<400> 30979
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gatatttgca ctcaaagcta cggcaaacaa atggaattct attacaatat gaattacaag 120
ttccttgatt ggcatatcaa ggaaaactga aagtgggtgt atgtggattg atttgccaca 180
gcctttatag acaaaccaaa tgcttatttc aacacaaaca cgtatacaga aagaaaccac 240
ttgaagaaaa cagaagaaaa caaaactacc aaattggaag gggagcacca ttccactctc 300
caaggcattc caaaagtgga tcaatgacct tccttgggcc catagcagta aaaactttgt 360
cacactcttc acccggtgag aaccc 385

<210> 30980
<211> 553
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064e09d1

<400> 30980
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tgatggtaga ttgcagccac cgcagctcca acaaacggtc caaccagta aatccattgg 120
tcgtcccagg ctttgctggt gttgaagatc acagctggtc cgaaactcct tgcaggggta 180
atgccggttc cagtgcaggg gattgtagcc aagtgaacca tgaagacggc aaaccaatg 240
ggaagtgggtg ctaacacagg aacatgagag tccttagcgt tcctcttagg atcagtggcg 300
gagaaaacgg ttagacaag aacaaaggta ccaatgatct cagcaccaa agcgggtacct 360
ttgtttagc catcgtgac agtggttaacc ccacctcgt acctgttgta gaacgatttc 420
tggaaccctt tggccaaccc agcaccgcag attgcaccgg cacactgtgc tatcatgtac 480
aacaacgccc tcaccaaaga caccttgctg ccaggaacaa cccgaatgtc accgcagggt 540
tgatgtgtcc ccc 553

<210> 30981
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064e10d1

<400> 30981

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 acacatgtcc gacagaagac gaaaaagtag acatcaaaca cacgatattt cagacactct 120
 aataatcatc atctccttca ccatcatcat ctccatcacc agactcggca ccaacctcct 180
 cataatcctt ctcaagagca gcaaggteet cacgagcctc tgagaactca ccctcttcca 240
 taccttcacc cacataccag tgcacgaagg ccctcttcgc atacatgagg tcaaacttat 300
 gatcaatcct ggagaacact tcagccacac tagtggagtt cgaaatcatg cacacagccc 360
 tctgcacctt ggcaagggtca cctccaggaa caacagtagg aggctgatag tttataccac 420
 acttgaaccc agtggggcac caatccacaa actggatggt tctcttggtc ttgatgggtg 480
 ccacagcagc attcacatcc ttgggcacga catcgccccg gtacatcaaa caacacgcca 540
 t 541

<210> 30982

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064e11d1

<400> 30982

aacaagcatt aatagaatth ttattttctca cacaataaat acaagagatt ctgcaaactg 60
 aaaaagggat ttcttactaa agcaaactca aacaagaaca acttccactc atttggcatc 120
 taccgtagta gaacaggatc aaaagcagct ctctgataga acacacgtat gtattatatt 180
 gaacatcttg cacagtgggt cattttctcac agctattgca acttaaaata cttgcaaagc 240
 ttctgcaaat tccaaaacttt cttttttctcc cttctttatg gatatgacaa agtgatcaga 300
 tcatgaaaca ataataatc cattgaatth gaatctgatt tttggtttgg atcgatgcc 360
 ccattcttca tcttaggaag ggacaacaaa taggccaag cctactaatt aagcgcttaa 420
 aactgcatta gtggttggt taagtgtgat gttagtaaca tcagcttgat tattaaaggg 480
 tgttctttgt acgaagaagc atgccccaat aacaatgtag cacagcagga gaacaagggc 540
 cttcatgtag tgagaagtcc catcctgtaa agngaacctg tgactattat tgcaacgcaa 600
 ggga 604

<210> 30983
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064e12d1

<400> 30983

aagaaaggtg aaccatccgg aaaggaatat atttagaaaa ttgaccacgc ggaagagatg 60
 gtaaacaatca tcgtcatcat acaaggaaaa ttttcgcaac agactcagcc taatcaagtt 120
 gtcttaaaac tacatgagac aaaatatact ttgtttcaag gtgggggagg aaaaggtttc 180
 aaaaacaatg gaattgacat gacagatgag ttaaagacta acacaaaaac gagaaggcat 240
 tggtaaaggg acggcttttc cttgttctgt cgttgtagaa aaatgatgga cgatactctt 300
 tttctatcaa atccttttaga tcttgaagag taggccacca tgtgtagcaa agaagggagc 360
 aaacacaaga gactcaaccg ccatgagctt aataaggatg ttaagtgaag gtccagatgt 420
 atccttttaga gggctcctaa tgggtgtcacc aataacagct gccttgtgac aatctg 476

<210> 30984
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f06d1

<400> 30984

aatctgaaag taaattgcat ggactgaatc aaatgaacca tcatagtgtc gcttaactac 60
 aaagaaacat tattttttgta accaagggac tgaaaccgca ctaaacacag acatatattg 120
 tccttttgcca ataaaactgt gcaaatttaa ctcttgcaca gcctataatc atcgtttgat 180
 ctaagtacaa cctttcactt tcttgtgtat gaaaaactaa cattgaaaat cattttcaag 240
 gaaagagaac ggcaagcaaa aagacgaaaa attaattcct cgtgactaac tctcactttt 300
 atcacagtac catgagcatg ttgactaatt aataaggatt caactagtgc tgaaaactga 360
 cccaaaacaa aatttaacat tggacctgat ccagtagttc aatcagcgta tctgggaagg 420
 tgaacaaacc agaccagaag catctgctcc aatcactgca agatcgcaaa cattac 476

<210> 30985
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f07d1

<400> 30985

ggcgaatggt tctaggtggt ttacatgtca tttcttacag cgccacacca aggaacaaaa 60
 tgtccacatg atataaaaag gtagaaagggt agttgagttt tggcaacgta aagaatatgt 120
 aaaataacat ataatacatt cagtgggaact tgagactggg caagatgttg ttgtgcacgg 180
 ggtcagccaa atgatctagg aggttttgggt atgggccaac acctgtgaca agagcttgaa 240
 caaagtaacc caagattgcc aacatagcca accttccatt cttcacttcc ttgagcttca 300
 aatccttcaa ggacttttta ttcttaccaa agcctagtgg gttgaagaaa ggtcctcctg 360
 gataagctgg ctcaccagaa cctccaagac ccttcttttag tcctaggaag tattgtttgc 420
 ccatagagcc tggtttggcc caatcttgga 450

<210> 30986
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f08d1

<400> 30986

gaggctagca aattaacact gtttctttcc acatccattt atctgaacct tacacatttt 60
 caccactgcc aaacagttca cacagttgcc accttctca tccttccatg gtagatttcc 120
 agagctacta gtagaatgag tagcagtgc tgggctaccg tcaaacatgc taagtaacaa 180
 tctgattcgg gcaactgatga cagcctaaac gcatgatatc ttccacatcc acagaacatt 240
 agagagaatg gaaggcttgt tactactact caaattaata ttcacatata ggggaaattc 300
 tacccaattg gaacttgact ctaagaaccg gctacccttt gaataactta gaatcactaa 360
 aagaaaattg ataatatata ttgagatttg agattctaaa cctaactctc ttgatctgga 420
 caaccataga caacggattc aggccggaat ttgagccata ctaactgcac catacagctc 480
 agcagcacag caatacttac cgcaaggatt actaattaca taaat 525

<210> 30987
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f09d1

<400> 30987

agcaaagctc tcaatattta ttattaaaaa aattagaaaa ctatataatt acaaataatta 60
 caatggaaga agcaacgagg tcgaccctga gttagtaata ataataaaat gaggtcagtg 120
 ttacttcagt atacatatct gcataacctt actaagctga aatgtcaagc gctcaggatt 180
 tcttcacatc gcgtctcaca aggctgtttc tggttctggc tttaaaaagt tatgatattc 240
 cagctgagtc atctcccttc catgtactgg atcaaattgg catctataga agcttccatc 300
 cataccaaga ataatgactg tattcttttg gagaccaa at gcaactgtgt aatgagagcc 360
 ctcttgtaag tgaaactgag caactgacca ctcagaattg aagtacttgg gcaacacccc 420
 tttcaattta atgaaggagc gagaagagct agatggggta atggcagcat ctgaatt 477

<210> 30988
 <211> 391
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f10d1

<400> 30988

gggggggggc cccccgctca ccctttaaaa aaaaaatccc gggcgaaggt tttaggttct 60
 ttggggccga cgctaaaaaa aactttataa aaagggggga taggcggggg ccttaaaggg 120
 cttggccctg ggcccccttt agggggggtt caaaggcccg gggggggggg tctacggggc 180
 ccccttggtg ggggggaaag gccagcccg cttttctccc cctggttggg cccaaaaaaa 240
 aaggggaatc ttttattttt gggggggggg gtttgggggc cccccgggg gggcttttaa 300
 aaaaccctg ggggtttgcg tctggctggg ggggaaaatt tttggaaaac cctttctagg 360
 aggggaccaa ccggcttttt ttgaagggg g 391

<210> 30989
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f12d1

<400> 30989

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ggcagtgggt ttcacattaa aatcatatga atggttaaca gctcaagttt aaaactggtc 60
aatgaagaag gggaaactca ccccataatg aggtttgatg gacttacaac atcaatttcc 120
gcttaaattg acgaaataaa aaaaaaattt tattgaaaag aaataagtaa aaaagaaatg 180
tttttcccca ccatcacaac atgcctccat tttatatctc aaaatctgaa gtcaggatcc 240
acatccattg cccagcagaa tttcgccagc agagatttgt tgaaaatctt ttcaatagga 300
acctcatgcc ttttgcacca ggcaactgta atcctagggt caaggtagtt tatcttggat 360
gtgcctaattg ccacagggtt cagatcttct tttggcttca tatcacggtg cattttctca 420
atttttgcat tggtttgaga tatttttttt ttttagcattt tgggactcaa gttcttttt 479
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<210> 30990

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g01d1

<400> 30990

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caacagggat aagagtacca ccattattg aaataatcac tcaaaataca gtaatgcacc 60
cgtataacat atcaaagtgg cgtgcggaaa acacacaggc tccatgaata tgtcccgaga 120
gcacgatgga ggaggaggag gagtcaaaca caacacaaat acaaattaaa agataatcag 180
tactactagg cagaaccgaa ttaagagaa ttcgagccaa atatcttagc taaatggtag 240
aagagctgaa agacaaggta atttcttcag ccctgaacct ccaccacact tactcctcct 300
cttcagcctc ctccagccaa ttaacaaagg gttccagcgc cttcacaag gtttgcctgc 360
ccttgaggtt tgttcctttt cggaaccaat gaagaatggt ttcttcagcc agcacatcct 420
ggtcataaag agatctaata atctaggga cagcttcata agtttagcat cctcatag 478
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<210> 30991

<211> 558

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g03d1

<400> 30991

gaacttgtaa tcacaaaaga ttttaccatt attttcaaag tagacttctt tgtacaatat 60
 gtttctgcac ttagtagaca tttcccatgt gttatgtccc taccgtacac ataaatacat 120
 gcagcattta attagaagaa gaaagtagct acgtactgtg ccattttgat gatgatttgg 180
 ttttgctttg ctatcaattt tgtgttttgg ttggcgagga acctcacaag aggaaacgtt 240
 caccttccac cttccgagag aaacattttt gtaaaatact aggtagataa aattcaacac 300
 caagaaccta aatttgagcc cgtgggtattt tgtcacattt atagatttga tatcttacct 360
 ttaattttct ttcataagaca attaaattcc cgtgctaatt cccctcttcc ttcattccta 420
 tcgtttgcag ggcattgtgac tctatctcgt tgaaacaggt aaacccaaaa tcatgaatac 480
 caaagtcttg acagtccaat aaccaagcac aattatcctt ccaagatggt aacaaaccca 540
 tgttattact agtattct 558

<210> 30992

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g05d1

<400> 30992

agcatccaaa ttcataact tcatgattcc aatattctcc taaaacaggt ggaccagtct 60
 atcatgagtc tacatatcaa ttatattctt tattcatatg aaaactactt ctaaaatact 120
 actattgaaa ccatatatac cttataccga tgatattgagc cgtctgttac atctccatta 180
 cttacatttt ttattttttc tgcattgcat aagtggaaat tatacattaa aacgggcaat 240
 ttacagtcaa accctgttga tgatgaatct ttcattgctt tcgttgacca gtagcatatg 300
 cattgattgt tctgtgaaac aaatggacat aactcccatc tttcttagca cctggaagat 360
 tttccggatg tgtgtagcaa attccttggc ctccttcag tgttgggatg aactcattga 420
 taaacatgta gctgaagata gatagtgtt tcaatttctt tgcaaactct ccatgtcaat 480
 aag 483

<210> 30993

<211> 500

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g06d1

<400> 30993

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caaataaat atactacata taattgaaac agacatcatc ttggggaaga aacatacata   60
cagctaata gtttaaattt tacaacatca tcatcatcac aagccttaat gggcatatac  120
tctggttttt atttttattt tcccttgaaa acaaagattc atacacacat acatacatag  180
gttggtttga atagctaaaa gattactatc atacatgctt tcacgattga gaaagttgct  240
taatcttttc ctcgagctgg accttattgg ctcccacaag cctctcaact tcctttcctt  300
ccttccaagc cacgaacgtc ggcacgccc tcacccata ctcctcggcc acaccagata  360
attcttcac gtcgatattg acgtagtcag cgtttgata ctttggggcc atctcgtgaa  420
acagtggagt gatgaatttg caagggccac accaagacgc cgtgaaaaaa atcacaactg  480
gcttagggga gtctttgatc                                     500

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<210> 30994
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g07d1

<400> 30994

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aaataaatcg agattgaact cggaactttc tttctttaca gaaaaagaaa atgttaaaaa   60
aaatacaaaa aaacaccaat taatacaaaa aaagaaaaga aatcaacgaa ggaacaacag  120
ctgttttagc tggcctccta agtaaagaat tgtattcttc tccttctctt cttttctttt  180
ctcttttctt tttttctttt tcttttcttc ctctcttta gcccgaattt cccttcttct  240
tctaattctt ttgaccaggt tctttcttct ttttttccc tgtctgtttt aatctgtgac  300
ttaaaaccta ccacactaaa aaaagaaaaa accctttccg aaaaagaaaa aaaaagggg  360
ggggaaacaa aataaaataa aattaattta caggtttgcc gtgattgtag ccgtaatagg  420
aaaggtacca cttgacgaac ttcttcaacc cggtttgcaa atcggtggtg ggcttgtacc  480
cgagttctct ccgggccgaa ctaatattcg cgtgagtaaa cggaacgctg ccgtttccag  540
gcatgtccac aatattc                                     557

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<210> 30995
 <211> 503
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g11d1

<400> 30995

aaactgagca atgaagatga gaccgctcaa tctttcacta ataactgcaa gagtaaatta 60
 aaactctcgc aaaacattga tatcggtaca accactgacg caagtgaccc ttattttaga 120
 atacagttac acgcacaagt gcacaacaca agaccatagg taaaaacata aatggcatga 180
 acaatgagtc aaagcaatgg cagaacaata atattaacgc caccaccact tgtaacagtg 240
 cactcagttc ctctgcagta gcagagaaat tagacatagc ccctgctctt caaactctcc 300
 actgcatcct tgatgatttg ctcaacagga gtgaattcta gacctaaac aatcagcttc 360
 tttgatgcat cctttccact tgctctcaac aaccctgggt gggatcctt tggcaactta 420
 gccacatcgt attcagggtg taactcagca accttgtcca caagatcact aaagtgcga 480
 atagattcca cacacaagtg cct 503

<210> 30996
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h01d1

<400> 30996

acggaggaac gtttttctgc tattttctca tacccttcca acaccatttc ttacatata 60
 tatatagctg ttatagaggg gacaagtccc gacaagcaaa aacggaaaag ataaaagcaa 120
 tccgaaatat cctaagagca aatatgcctt tattccacta cctacgcac ttctagaaga 180
 cacgatgcta tcacacgggt ttgcgctttt cctacgtacg gtgcatgtat gcatgatgca 240
 tgatgccagc catgctatac gttccttcct cttgggcctt tgggtgcttac ttctgcaga 300
 cccatcttac tacgatttct tttccagcat actaggaaca ggattatata tatagccgat 360
 aaaaacaaag aagcaagatt ttccaagcta cagattttca tctggaatgc gcaagaggat 420
 aatggaagaa taactaagca tgggatacat attggcgtcc agaaactgag catactgttg 480

tatggcaata tctcttccag gaaggtcagg agtgaggaaa tcatatgggtg taggcttgct 540
 ggtgtcta 548

<210> 30997
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064h02d1
 <400> 30997

acggaggaac atgttaaggc tataaaataa tcttcattct acaggaggaa gattcatatt 60
 tatattgtgg gccaaccgg gccaaaggcc cactagttta ttctgaggcg agaatatctc 120
 taccatcctt actatgacct tccctgcctc actacatggt ccatcacatt ttctaaaaaa 180
 aacgaaccta ttgcaagaat ttgttctgtc cctacgttcg gggccttgct gctttttgca 240
 tgggggcagg catgcaatac gttctttaac attggaccca agttgaatac tttctgcttg 300
 cccaccttac tgctagacca tttgcagact ggctcgaaca tgattatatg tacaccctct 360
 acttacgagg ggacctgaat ctccaagctt caaatcttca tgtgctctgc gtctaaggat 420
 cttggtggaa gaactacacc tgtgattcat att 453

<210> 30998
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064h03d1
 <400> 30998

aatggttggg gacaatggta gtttccacat aaaagggggg aagtcctaatt tttcacaaga 60
 aaaaaggccc gtgacacagg tccctcccaa gggaaattga tcaccaactt gcaactgcag 120
 acctctgttg gtgcaaaatg agagatccat attacccttc taaaagggg gacaaccccg 180
 ggaatccctt tccgccacat ggctttacca gttacaagaa actcatgacg gcccgggagt 240
 actccggtgg ggttcccatc ctgagcccca acaagggata tataacattg ctccaaatgc 300
 ccatgaggct tatgcaa 317

<210> 30999
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h05d1

<400> 30999

acttatatat aaatataata cacaataaca ttgatgaaaa ctacccaaac ataaaattcg 60
 ctgctctttc tagcaaaaca tagattcctc tttttcgagc catcaaacc tcattagatc 120
 aaacaatata aaatacaaca cgacgtaaaa attaaataaa tatcaagcca cgataatacc 180
 tcaataaaaa aagcccagta tgaaaaggac atgctgtggg gaagcaaaga gaaatgtgat 240
 gcacatcaaa gccccagaa gataacaatg caactgtgaa tctgcgctgg ccagtgtgtc 300
 aacgatagta cataagctgc tgtctcgatg aattaccggg atatccatca tacat 355

<210> 31000
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h07d1

<400> 31000

gggttgggtt tttttttttt tttttttttt ttcttttctt tttgggcaaa aaaaattccc 60
 cgggcccgtt tttttttttt ttcacatggt tttccccaat cccccaacct ttttaagggg 120
 ggcggttatc gaacccctg ggggggcccc ccaaaaagcc cccccacaag gttttggggg 180
 cggttacca taaaaaacc cccggttcg tcctaaaatt ggggcaaaa agaggggccc 240
 caaaaaccaa aaattttttg gggaaaaaac ccccggggcc caaatggggt gtatcccacc 300
 tagaaaaaag cccctatatt tcctccggt ttttggggcc ccaaccccc aaagggtccc 360
 ttttgggggg cccgggtttt caacccttt agggcccttc ctttttcttt ttttctttga 420
 agggaaaccc agggccccc cgaaaaaccc tttt 455

<210> 31001
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h09d1

<400> 31001

aataattaat taattggata tcccattata cagtatcctt tccaaaatat catgagacat 60
 aaaaataaaa aacaaagaag cctgggtctct gttcatacaa cattatatca cagattgcc 120
 atcattttat aaactagggc gattcttaat ttagcacaaa gaaatgacat tcaaagccca 180
 cctccatgag aggaagaata ccacccatca aacctataat ggatattcagg gctcatctag 240
 ctgggtcctgg acatcagaag tccaaagggg gaggttgtct cttaaaagct gcattatgag 300
 cgtgctgtct ttgtaggatt cttctcccaa ggtgtccagc tcagcaattg cttcctcaaa 360
 agcctgttta gccatggcac acgctttgtc agactgggtg aggatttcat agtagaagac 420
 ggagatgttg agagcgagac ccaatctgat ggggtgagta gggggaaaga tccccagaag 480
 caatgt 486

<210> 31002

<211> 584

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064h11d1

<400> 31002

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 aaaacctaaa taactctatc taagatttat catatcctaa cacagcacgc gcagcgcgta 120
 tgaattggaa cacagcaaaa atgagcacia caatccccac caaagtggaa cttgctctcc 180
 aagggctctc aaagtacacc aaccacaacg ctgccatggt gcgggtccag atgttctggt 240
 agtgcttggt gagttcattt atagtctcgt agtaaacagc tgtgtttgcc acaacgtggt 300
 tgcttagtcc attaacgaga accgccactt gcttatcact cccaagttca tgcacaatca 360
 ctttcttctc aaccagcaac tccacatcaa gctgagtgtg tataagagag tcaatcagag 420
 aaacatagtt gcaaattgtg ggcttctcag gatagtgaca ctgctcaaag gcaatgaggt 480
 tcctgaacac acattcgggt gtgtgggtcca ctttcaactg ggggatccta aaacgtgcct 540
 tgaagtgggt tcagtatggc aagcaaccaa agcaaagaaa ggaa 584

<210> 31003

<211> 540

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h12d1

<400> 31003

aataacaaca tactagcata tcattaagga cttaatgaag aaattaagta aactagttcc 60
 acaagaattt ctgtcttcat acaagacaaa agaaccacca aatgtatgta attcagtaaa 120
 tattgtgcta ccttgacta cttgatctaa ttggtattgt tgcctttaca cccatgagtt 180
 acaagttctc aagtatgcat aacaaacgat ttcataggga acaactacta ccaatgctgg 240
 aaactgaaaa ttcaagaatc tgcaatgggg aaaacagatc caattcgatc acccaatcga 300
 tagcacttga tattaacccc atatggacca agctgaatgt ggttatcctc cctaccaaca 360
 tagaaacaca gggatataca agcaatttca aattcagggc tcaactccaac caaagtgctg 420
 gatacagatt ttaggacacc attccattca aactgaatag tcagaagctg agcttcagag 480
 tcaggagttt ctccccgtcg acggggaaaa atatatcctt gataatcaac tctccccctt 540

<210> 31004
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065a02d1

<400> 31004

attactattg cttcttatga actagccttc caaaccatga tcaatatctc tctcctagct 60
 atcctgagac agaaggattc acaggaaaat tccttgctat ttaatctcta aaagaaacat 120
 gcttgcctt ttgcttctac cagtatacca gccatcatag aatgagtcac ctgaaagggt 180
 caacagggtgc agattcttca agaaagtgtg ctgcttgaaa acattcggca gcttcaacta 240
 atgatgatgc tgtacctca gccttggtgaa gaaggccaag attataccaa gcagaagcgt 300
 tgaatctgtc gtgccgtagc gcatccatca gaaagctttt aactgctgga tttgatttat 360
 tactgcatcg tttaagaact acagcagtgg agattatgct aaggacatgg ccaggatcaa 420
 tgtccaaggc atcaccaaaa gcttttagag ccctcttgta ttgacacttt gcttcgtaca 480
 ctatgcctat tgcattgacat ctgga 505

<210> 31005
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400065a04d1

<400> 31005

agcaatgaac taattattat ataaagaaga aaaatgtaat gcaagcatac agcttaaaga 60
 acaccaccaa ttatcagttc aaaatgtttt atctactgtc aacattaagt aagtctcaaa 120
 tgttgactaa aacagacatc gagcaggata caaaacttta atatacttat ttttgttcat 180
 ccagtaatcc atggacagtt ccttttattt atcacctaac tggaaaatca acatgggcat 240
 catccaaaat taaacatgtt cccaaatgaa gttttggaga atataaacia gcgccctatc 300
 gtccacaaat cctattccac atataattag aatgttaaata accatcatgt gttgggttga 360
 aattgaagca ctgcaaacta ggctgttaa agagatgac tggtgggtga gatctttgca 420
 taaaatcatc cactgggaca ggaagctgaa actgagcttc aattccgtaa cctgctgctc 480
 gcatttctga acaatccaaa ttgggtcattg atttaggcaa aagttngaag gctaaagaac 540
 atcgtccata catattagcc tncatattaa tctcagtttt gagc 584

<210> 31006
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065a09d1

<400> 31006

gaccatatga gcaaaaactt atatcattgt tcaagtagaa acggggaaaa gtacattaaa 60
 aaaaaaagag aaaaataaaa tcgcaataaa aacataatga cacgctgtta tctaaacttc 120
 aaaaggtct ttgacaaaat caagaacaac ccatgagaat cttctgctta atcgacttcc 180
 tcaattttgg gtccagcacc gttccactg ccagctgcag gaccatctc atccatggct 240
 ccaccgcat caccaccagc accctggtac atctttgcta tgatgggatt acaaatgctc 300
 tccaactcct tcattttatc ctcaaattcg tcagcctcag caagttgggt tccatctagc 360
 cattggatag cctgctcaat cgcattctca attttcttct tatcatcaga agacagtttg 420

gaagcaatct tgtcatcctt gatttgtgtc ctcattgtat aggcataatt ttccaatgca 480
 tttttggcct ccaactttttt tttatgcttc ctgc 514

<210> 31007
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400065a11d1

<400> 31007

gaaactcctt caacaagata ttccatcaaa ccttactatt aatgctgtta atatatgctt 60
 aacttggcaa tatgactagg ttggtaagac aggattcaac ccgtcttgag acattgcccc 120
 cttectgagt tattgcataa gtnttatacct ttacatacaa aaaatgcacg ccccgataca 180
 taactttctc agatgcatgc accgcttata tttgtttcaa ttatgccaaa tcagagaaaa 240
 acaaggaatt aggataagca actattcaac atgattgtgg catacacatg accccgagca 300
 tttctcactt ctccgcatga cttcgagtac agaagtaagc atccataatg tcatacatgt 360
 attcctctca aactaatcct gagaatctcc caccataaac ttcataaaaa attgatatca 420
 ccaactgcca acaatttcaa aatc 444

<210> 31008
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b02d1

<400> 31008

acattaaata ctgagattgt gtcattctaca gtacagttat ttaacttgac tcaagcagaa 60
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 aatccatttc tacttatgta cagaaccatc aaaattagtc aatgcataag ttaatttcca 180
 gagctctttc agatagcttc tccagagggt gattttaacc tatggataag ttaatatata 240
 agaaaatctt tacttataat aagtatctgt tgagaaattg atcgaaacac aacttaataa 300
 ctccctaata cacttctact tgtataagga acacaacaat aacaataaca agaattagaa 360
 gaagtgaatc cccaataaca aaaaacaaac cgtactgaca attaacattt gccgacaaaa 420

aaaaaaacac tataaccgcaa cagcgacgcc aatgattggg gaaaacttga cgaagatgcc 480
 taaccagtcc cactgggatc cttcccagat atcgggggat tgaaaatgac ggtc 534

<210> 31009
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b06d1

<400> 31009

aaacaaaatt aactcatgtg ttatatatttg gcagccaaat gctccataag cattggcatg 60
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 tccttttata caaaactaca tacaacgaaa gaagacgccca ttttaaacag gcttcattaa 180
 agaggaatca agcgaagaca aatagcatag cttgacatta acatatatag cctactaatc 240
 aaattagaca agacgtaaaa tataaaagat ggatcgatct aattggaagc tacagagaga 300
 gtctgtctag tcgagtggcc aaatagttcc acaactcata gcatcgttca tgacttcatt 360
 gatgtcattg aaactcatat ccaagtttcc aagtgtgaa ttctgtccac cattattgta 420
 cgagacatca tttccatgaa cgggtgattgt tggcgaaaca tgcgccatg 469

<210> 31010
 <211> 460
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b09d1

<400> 31010

gagtcgataa tgagagacta atttctcaat gtattgatgt tcattcaaga gattgatatc 60
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 aagaacagaa acatgattat ctgtctcacg caaaaaaaaa aaaaaagaac caaaatataa 180
 ccatactgca atgagtagca ttggcttaac ttcaaggcca cagggaaga accatgctct 240
 ctgactcttg catcgaaacc atgttggttca tgtcgctaata gaagtaccca ccatcataaa 300
 tgctgtggta ccacgggtga gaatagggcc acccgtcgtc catgtccagg aacacaaact 360
 cggaactccg gtcgggagcg tcgaaactcg ttccgagcgg cggcagctcc acgatctcgc 420

cgaggatcatc ctccggcgtg gcggccggcg acggaggggt

460

<210> 31011
<211> 453
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065b10d1

<400> 31011

cacttctatt ggatthtttcc tatatagaca aacgctatta acaaggaaca gagaagggaa 60
cacaattcca gcaccggcct tttacagcaa aaagctcgag tgtgttgtga cgggtgaaac 120
tgcacggaga aagttgcgtt ttgaggtaaa atttatcagg gggcattata gcaaataacc 180
taaagttact actaacttaa tttctagtat tctatgacta gcccacccat tggggcacgg 240
tgtggaattc cttttcttct cttggccgtt ctgtaattaa cagaagttgg aggcgggtgtg 300
gacgggtgtga agctgttctt cttcccatgg ctgctgttgc tgctgtacga agaatectct 360
gtgtctgatc ccattgccgc tgactthttt cttctctgga agttccttga agtcccaaca 420
atcttgcaac caagagaaca gaatcggaaa gaa 453

<210> 31012
<211> 444
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065b12d1

<400> 31012

aatcatgaat ttattaaaaa taaattttca acaagttata caaacttatt agaaaaaagt 60
ttaaaaagag tttaggtgat ccccaattta tttttacata tataggttca aacagactct 120
ctaaactctt ctacacactc taccaatgcc ctaacatag gaaataacaa ccaagcaatg 180
gcacacgagg atacaattaa caaagtataa tgacactaat tttaatgcat ggattgaagt 240
gatcttgaac agtgatgcta tattctcatg acttctatgt aggcctttcc atcgagtttg 300
cgagaaaata agcccttgaa gtagtccttt actcctatgc ttttgaatcg tgggtggtgtt 360
tgttcagtga tcaagcttgg tgcaggacct accacacat ctgaacttgg actatagaat 420
gttgcaaatg aaagtctttc tttt 444

<210> 31013
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c01d1

<400> 31013

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aatcaccaaa tcaatcacat taccacattc acgggcttgc tcgaaacaat atccatagca 60
caggcttaaa gcgtcttaca atattacaga aattgaaatt aaaaaaggaa accttaatat 120
cttcctatgg gagacaatcc tgttcgagta gaatagatta ttttttcttg cctcctttgg 180
aaacaccctt gcgccttgag gggataacaa tctctccctt gagaacagga atctccatga 240
tctcttttgag ctccccgaac ttcttgcgga acttctcgac ctggtcgctg ctgaccatag 300
acgccgaccg gcttccgagg tagaaggggt ggtccccga ccacacgtcc accacgtatt 360
ccttctgggt cccacctgtc gtcagcacca gctccccgtt gcagtaacac ttcgattcct 420
cgtagaattg cgggtgtatc ttcttcttct tgcaccacac accgcaactga accgctctcc 480
gaacattttt agtgggagct gctgcaactg gaagaaaggg ttttccttgc acgaatgtgt 540
tggtcacaca ct 552
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<210> 31014
 <211> 294
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c02d1

<400> 31014

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aaatgacaaa tgaatttcat gtacaaataa atgtctttat atattataat acacataaat 60
ccgcagtcaa accaataact gacttttgac agaaattaac agaaaaaagt tacaaaacaa 120
cccaatttgt aagaactgta gctatagcta taaagaggac gatagctcat gcccttttgt 180
ttaattgtca ttgcatttcc atttagaagt tggaacacat gttagatagt gacaccaatg 240
gcagtgatca tatccattct caccctggat aacatcacta gagcaataga tacc 294
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<210> 31015
 <211> 443

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c04d1

<400> 31015

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 aagacatgaa gttgtcgcaa taccagggca aggtcatct cacttatcga gccaggttct 180
 aaccccccaa aaccaacgtc taacattgga aacacacaca cacacacaca cacacacaca 240
 aactgacaaa agcgtcgacg cgtgcttctt ccaaaaaaaaa taaaaatgac atgcatggta 300
 aatacgaggc acaaattaat gcgcacatta cattgcatac ctaggacgac gagatcatat 360
 gggattgatc taaatcatat accgtccatg gtcggaaacc attacatgtg tgtgacgtgg 420
 agatttgta gagtaaacac aat 443

<210> 31016
 <211> 375
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c05d1

<400> 31016

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 ataaaacata ttctaacag agacacctag atcgaagcga aggggcataa tagtcagttc 180
 aagagctagt gaacttggtg acagccttgg taccctcaga gacggcgtgc ttggccaatt 240
 caccgggcag cacaagcctg accgcggtct gaatttcct tgaagtgatg gtgggcttct 300
 tgttgtaacg ggcaagtcta gaagattcct gggcaagctt ctgaaaatg tcgttgatga 360
 agctgttcat gattc 375

<210> 31017
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c06d1

<400> 31017

ggagtcaaag aactgtattg atctaaccac caaaattttac acttggtggt gccttgaggc 60
 ttcatgttgg acagtacaac acaaacaaca aaaacgaatc ttgaatcagt attttgcttt 120
 ccactatctg tgcatttcac aagtattaca ataacagAAC aacaattcac agaggccctc 180
 caccaccact tgcagcagca gcagcagttc agcaccatc attgatacat gacaacagga 240
 ggaaccttaa acctatcctc aagaaagggt ataggccttt tcccatccac aaggtcctta 300
 taaaacgcat actcagcctc atagtcatgc aagtgaagct cagccttctg gttagtgtgg 360
 taatggtgct tagcagaagt cgatttccca aacccaaaaa tgctaaccct atcacaatc 420
 cccaaagcca gcatcacagc ctgcatccct gaagagtagt gaaaaagaga accatcatga 480
 gcctctcccc acttctccaa acccttccca ctctccttca caaacctctt caacgaatag 540
 tact 544

<210> 31018

<211> 395

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c08d1

<400> 31018

caaaaacggg gggggaagga cccaaagcat ttccatactt gggttacattt aaaggggaac 60
 cagccaaaat taaacttatt accccgggaa aaatagcccg gggtaaataca aaaaacaatt 120
 ggagtttgca aaaagggtcaa ctaaataaaa accacctgaa cccatttact ggaaaaaaag 180
 cactcctcca acccaatttc cgatttaaca atatgaacag gtggaaaaac agtcctcccc 240
 tcttttttat ttattttaacc ccagggcagg taattatatt taacagggtc aaccttgggg 300
 gcggggaaaa aaagataaaa accctttttt ccccaaacga tgccgggggg ggactccaaa 360
 aactggttga agaggggggg gcacttttgg ggggg 395

<210> 31019

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c09d1

<400> 31019

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 gatccaaaac tcaaaaacag caatttcga agcagcttga aaggcagcat tatatcagtt 120
 cctaactacg aatttcaatt cttcttcaca gtggcagcat ttatgatgtc cacgaactcc 180
 ggcttcaggg aggcaccacc aacaaaaaat ccatcaacat cgggctgtgc ggccaattct 240
 ttgcagtttc ctccatttac agaacctcca tagataattc ttacagatgc agcaacttcg 300
 gcactcacat tgtcatgaac ccatttcctc aaatcagcat ggacctcttg agcctgagca 360
 ggagtagcaa cctttcctgt tccaatggcc caaactggct cgtaggccaa aacaacattg 420
 tcccaatttg atatttaact gcattggttt tgtttgctta gaaacaacag ccgttggtgt 480
 accagcttca cgctgttcga gagtctcccc aatgcatgca ataactt 527

<210> 31020

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c10d1

<400> 31020

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 aaacaaggag gcatccatat gcctaagtag gaattaaaag tatagaattt caagccagga 120
 ataattaaat gagaagaaa cagaaaacag atgtaacatt tttgaagacc aaattagtag 180
 tacccttatt gatcctaacc ataccctcac tgataataag attcataaca ctagtgccgt 240
 caaattctgc ttcagttggt gagaggtgca ggatatctgt tgatgcaatc aagccaaggg 300
 ttcctagaag gcttggtgac tcggcgcatg gcgcgcaaaa ccacactggt gcacttgaag 360
 ccagagccaa atgcgagttg ccaaacacgg tctcctcttc taacactctc ttttgcttcc 420
 atgtaagcca actcatacca aatgct 446

<210> 31021

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d01d1

<400> 31021

aaagagaaca ataatgtagt taaattcatg gggcaaattg gaatattaat atatatatat 60
 atatatatat atatatatat aacaccctga tgattctaca ataaaaagta caaattagct 120
 gggggctacc attttactta agccacttca gcgttcccta gaaattcaaa atactacaac 180
 tttagccccc ccaagtttaa ttatcaaacc cacccaatca gaaaaagtaa aaccaacaa 240
 tatctaagtc acaattaaaa agttgtcact cactatccag tcaaacgacc atgttttagta 300
 ataagtaaat aaatgggggg aacccaaaaca aaaaggatca tgataaaaaa tatatataag 360
 tttgtcattg atgttgatga catgggtgat gattatgatt aggggtttttt tcagaccggg 420
 aaattttttc cggtgaaagt ttgaccgaat tgccaattgg gtggagcga 469

<210> 31022

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d04d1

<400> 31022

caatcacaag tcacaaaata tttttcactt ggaataaggg aataatagaa cagctatgga 60
 aaaaaatctg ataaatccta aaattacaga attctatagg agttgaaaag aggcacatta 120
 cattaggggt gcatcagcaa agacctcagc cagcatgccca tcatcactac cttecatggc 180
 aagtagttct gtttctttct cttectcatt ggaaaagtct cgtctttcaa gcttggcatg 240
 agctgcgata tatatcattt tctgagctct ttccaaggaa actctcgaat gtttatttgc 300
 agaaatcttc ttgatgaaag aacaattact cttagatcca aatgaagttg catgcaaaaa 360
 aatgagcctc actgcaagct ttccgaggga tttaaactcg ctgaggcaag tttcccaaac 420
 aagtctactg ctgagtggat tagcaacctt catcttcccg gtaaccgggt c 471

<210> 31023

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d05d1

<400> 31023

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 aaatccacat gctcgacctc cttttttgcta catcagcagt acgatcacia ggaattttca 120
 ccatgaaatc aataatatat ttgaaaagct gaagggaagt ttctcccttt tctctttcat 180
 ttaaaccatt gataatatca ttctcatttt catccaagac tccggtacta tccattgagc 240
 aacgtgttgt tattaattcc aaaagcttcc aaataatact ccagaagaag ttccatctgt 300
 cgcctttcac ttaccatact tcattgtttc tatgttaaaa ccaatagtgg gaaacttctt 360
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 ttgcatagct gccacaaaat ctttcaactg tgtacctgaa agtgatgtaa ccatcaagaa 480
 gaaaagtgat ttacgtaacg ttaagacact ggctatgctt ttaaaact 528

<210> 31024
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065d06d1
 <400> 31024

gttaaagaa agcgtaaaat taatatttga accatcatat taactacaac agttaatata 60
 tgtcaaagta aatgcaaagc atagatcatc tcctgtactt ttccgagaaa ctaaaagtga 120
 tctgaaagta aaggtaatta gtatgtatct ctgcttagga gggcgtgcta tatacagaag 180
 taatggatca gacattagag aaaaccacta gtagecgtgca ataccgcatt tgagagagac 240
 ttgcatgctc cagcttcatc agtgcttcag ttcaaaagcc tacatttgta catgctatgt 300
 acatttcttg ttcagcttac tttgggtcac aattgtacat tgatgcttgc ctcagaagca 360
 atgccaaatg gtgaacccat ttaagcttta taccctatta atcattgaag cctgaataaa 420
 gaactagtct tctgacaggt atactaaatc aaaatattat cgagtcagga aatgaatagc 480
 ttttcaggct taaatgttaa ccaaataattt tctctttt 517

<210> 31025
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065d07d1

<400> 31027

aaagaaaaag caaaccaagc caaaaattga aactacaaa tagaaagttg acatttaata 60
 aaccaaagca acacaacgca gcaaagtcct gaaactcgct gcgcttaaca aaaatgtaat 120
 caggggttcc gacaaacaca acacattaaa accacagata aataaaagca tttttgccac 180
 cgtcgatcaa gaacccagtt ctgggaacaa cagttgagag atgatgggtg agacttcaaa 240
 ctttgtccga aaaacaagct acctagaaaa gaagacacaa gactacagaa aagaaaccaa 300
 catttattgt aaccaacatc cctgatgaa ccagcccgca cgattcactt cttcttctgg 360
 gcagccttgg tgaccttggc tccggtagga tccttcttct caacgttctt gatgactccc 420
 acagcaacag tttgacgcat gtccctaaca gcaaacctac caagtggagg atactcggag 480
 aaagtttcaa caaccatggg tttggttggg atcatcttaa caaaaccagc atcac 535

<210> 31028

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d11d1

<400> 31028

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 tcattgtcct tttgtgtaat cctctactgt tttcaggttc gttttgttaa ctacattccc 120
 catgctcgaa aaaagtctct tttgaacggg gttgtcttcc cacttgata tgcctctttg 180
 ctaaaacatc aagagctgta actacgtcac taatcaaagg tcgggtatca gcttcctcct 240
 gaatacacat tgctgcaact gctagtgtt ggtgtagacc ctttggtggg tagttccctt 300
 tcagcaatgg atcaaccatt gatgaaaatt tccttctgtc tttgaatagt ggttggtgcc 360
 aagtgaccaa gttttgtctt tcagatgggc ttgactgac aattgctctt cttcctgtga 420
 tcatctctag aaacactact ccaaagctat atatatctga tttttagtgc aattgacctg 480
 ttgaggcata ctcagggtgca cagtagccat aagtttccat taccctgggg gatacatgag 540

<210> 31029

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e02d1

<400> 31029

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caaatacata tttttttcac ataaacaatc actaacagac tactgggtttt taaatgctgc  120
tcaagaaaaa cttttattca acgaaaaggg atccataatg gaggggtaaa cttccttacg  180
ttttccatgt taatcatatg gaattgggat atatgctgca tcacagatga aaggaatgtc  240
agcttacata ccaacaagag cgcccccttat gctctccaag acagtaaaga gataaccaat  300
tgattcggca gtccaaaaat gctttcccag tttaccccag ttgagggata ggggcattca  360
acgggtcaca gtccctataa cctgcaggga aatctccaat aacattccca tcacaacatg  420
aaatt                                             425

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<210> 31030

<211> 554

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e04d1

<400> 31030

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tccatttcca agaagcggga aattccctga tcttgatctt tctcttcaat aaggagacga  180
gatttgatata atatactgat actgatatgc catgaccagt atgaattggg aaaacttaga  240
tgcaaaatat ctactccat agaaaatagg agatcaaggc tccttaggga gaaaaaaaga  300
aagaaaaaag ggaaggctct tgcttacata aagtggatgat cagcgattta cattctttgt  360
gtatgtccag ggtatacaat acatgacatt ccgctaacag ggacaggcat cacatattac  420
cgtccagtga ttatattaat acgttgactt cttggtaaaa tgagacaaat aagctttaca  480
acaagaatgc accataatac acccagtaca atattacaca tataatgaaa gttagacaga  540
tgtgtctggg gttg                                             554

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<210> 31031

<211> 339

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e05d1
 <400> 31031

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 aggggtattgg tctcaaccga gacaaaatg ccgaaataat tttccacca atttgaaagt 120
 ttgaactaca gatttggatg attaaacttt caacaaacc gcccttttcc cccagcaaac 180
 atttggcaca ggggccattt agatttcaag agcaaagaat cttttgggcc aacatctttg 240
 ccaatggggg aggggaaagc attttggcac agggtaattt gttactttgt tccaccaaag 300
 atgccctaga ccccatTTTT tttatgtttt aaccgcct 339

<210> 31032
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e07d1
 <400> 31032

gattaaactg agcaatgaag atgagaccgc tcaatctttc actaataact gcaagagtaa 60
 attaaaactc tcgcaaaaca ttgatatcgt tacaaccact gatccaagt acccttattt 120
 tagaatacag ttacacgcac aagtgcacaa cacaagacca taggtaaaaa cataaatggc 180
 atgaacaatg agtcaaagca atggcagaac aataatatta acgccaccac cacttgtaac 240
 agtgcactca gttcctctgc agtagcagag aaattagaca tagcccctgc ttttcaaact 300
 ctccactgca tccttgatga tttgctcaac aggagtgaat tctagaccta aatcaatcag 360
 cttctttgat gcatcctttc cacttgctct caacaaccct gggtgggtat ctttggcaa 420
 cttagccaca tcgtattcag ggtataactc agcaaccttg tccacaagat cactaaagt 480
 acgaatagat tccacacac 499

<210> 31033
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e08d1

<400> 31033

gataggaaaa tgaatacttg aattatttcc accgactgaa tatccaaaag tgacatagct 60
 cagaacgtaa caaataatgt gaaacatgaa aaagaagctt ttatggccaa cacgaataaa 120
 aacatcatca tgaatagtat ttacaatga tacatgctta tttgggtgag ggcatgcaag 180
 caaaacacaa tatgaggagg caagagaaaa tttgattact ctcccaagaa atgcacttga 240
 tcatggtggt ggtgtctgca cattagagtc agattcatga gaggattgcc tgtgggtggt 300
 cttcaactca ggatgcttaa tctcctccaa cattctaaca acttcatcca ttctaggcct 360
 attatcagac cccttagcca cacatgccag tgcaatctga agcatctgca ccatctcctc 420
 ttcaacatat tgccctctca gaagctcctc atcaaacact tcagcagtcc actcctctct 480
 cacaacagac cttaccacc ttggaagatc aaccacatct tcata 525

<210> 31034

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400065e09d1

<400> 31034

accaagtct aactaggcat ataacacata cagaatcaaa tagaacacac ttatttaagc 60
 atcataaacc tagaaattaa cactagcttg gaatcaccaa tccttattag gggctcactt 120
 gaaatagata agtgaaggaa cataatgcac atcagttaca agcctgaaat agtgaccgtt 180
 ttgatttctt taagccgagc agaactagaa gtattccaag gtagtctaaa ttgtaagaca 240
 cctcaagtag ttggagctta tcaagagtcc atggagggaa cctaaaccaa aaatcagtca 300
 agtaacttct tctagccaca gccttatggt gactgaacgc atcaaaggag aactttccat 360
 ggtacttgcc aaaccacat tcaccaactc ctccaaatgg tagggatatcc gctacgtact 420
 acacanagat atagactagt taccattcaa tcacaagcag ctt 463

<210> 31035

<211> 579

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e10d1

<400> 31035

gtgcagcaaa aactaatttc tcttataatt atttatacag aaacttttcc tatgagaact 60
 tgtaatagag ttgaaacaaa cagttacaac ttaaaaggac tagaatttca ctccggaact 120
 cctgagattg cagatgatga tgactttgag tagcggttcaa gcaatgatag taccttggca 180
 gcttttctcc taagggtgtcc atccccatat atattcatgc cagtgaagacc aattaaacgt 240
 gatctagctg ttgttccata gtattctacc atttcctttg acacaaacac cttctccaac 300
 agtcctagag cttctgcctt tagagaatca gttccccagt tcaaaatgtc cattatggac 360
 cttattgcat tatattcatg caagacacga gctccccctt aaggaaaatc ttccaaaacc 420
 aatgtggaga gtgtttgtat tgcttcacaa gcagttgcat gaacctcccc atgtaacagc 480
 tttatcaagc caggtaaagc ctttgcttct aaaagacaaa atgtggtggt cacactgcat 540
 acactcccat gtgcttgaca taacggaaca cgcgatgat 579

<210> 31036

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e12d1

<400> 31036

caaagaaaga ttcttttcgg ggggtgattc tttttataga gatatgagaa aactgttatt 60
 acaaacaaag aaaaacataa atatttccag gatattcatt cctcaagcaa tcgaattact 120
 tggtaacttg tgctaacttt acttatgaaa tctctttctg cagattcttc cactgtttct 180
 tttctcaaaa taaagaacca aaaaaatcag agaataataa aagcctcatt gttaaaatgc 240
 tcatatatat aatcagaagg ctgcccatcc tgaagctgtg gtcgatccag aggtggttgt 300
 tgtgggaaga tttttctgta gttgagaaaa atctgataaa gcgttggttag aatgtttcac 360
 actttcgtat gtcccttttag gaccagtagc acgactggtg gaagcagtc gagcagcaac 420
 tggatcatt 429

<210> 31037

<211> 345

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f01d1

<400> 31037

aactgccaaa ggatttcttt attgctctct acagcttatt gccttcatga aagagaccct 60
aagatatata ttatatatct gtggagatga ctcgatatgc acttctcccc catggctgcc 120
tttattattc cctattatac atccaccaac ggtgctgaaa aacatccaca tcttataaac 180
tctggttatg acggttgaca tttatattgg gcggttatgc acatccacgg cagtcgtcat 240
tacccgagta atggccatac atatctggag atgcattgtg cgcggtgctca cccttcatat 300
ccgtatattg cgtgtggtac tatgggcacc aacgccctac ccttt 345

<210> 31038

<211> 308

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f02d1

<400> 31038

gggggggggg ggcaaaaaaa aacctttttt ggggaaagtt ggggtcaacc aaaaaaaat 60
gggcggttta tctacaaaaa aaggttttgt acgccccccc ctcgggggga aatttaaatt 120
tttttggggg cccttttttt ggggggggga agggggttat ccctatgccc aaccggggg 180
gggggccttt ccaaaatggg ggggggggag aacaaaaaaa aaaaggggct ggtttttttt 240
gggggggggg ggggactcga cattctgggt gaacaccccc ccgccctttt ggtggggggg 300
gaaaaatt 308

<210> 31039

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f03d1

<400> 31039

gaaatccac caaagagcca aatgccataa ttaggatggc taaaaaaat gaagtgtcca 60
caataaatg aaatacattg ggccaataga gattacaact caattaagaa taataataaa 120

aaaagaactt tttcgggtgta caaatataaa catttaaata aggaatataa tataattaat 180
 taacaaagga gagagaccgt gttttcttcg gaatgtagta atgtccaaga taactaacta 240
 agaccaaaaa atggcaagtg gcatgcataa accttaagca taactctgta gctttcttca 300
 tcaataagta acaacatagg aaaccttaag gtaatgacaa ttggggaaaa ctccattaaa 360
 ccccttttct gggccaccag ttgcaaattg caaggaccaa ttgagccaca ttatgaatcc 420
 tgtgaagatc gtatagagaa atgtactggc ag 452

<210> 31040
 <211> 315
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065f05d1

<400> 31040

caaaaaaagg ccccggtttc ttttaattca aaaaaacggg gggggaaaaa aaaaaggaaa 60
 atgtttccat aaaaaccac cggaaccc cgaaaaaaa aagtaatagg gccttttctt 120
 cccaaggcc caaataattt ttgaaaaaa aaaatacctt tttttaaaca aaccagta 180
 ataacttttc ctgggagcac ccataaaggc cctgggttaa taaaaccat ggcggaaaac 240
 cagggttttt ttgggggcc cctccctta ttttaaac caaattttaa attcccccc 300
 cggggggcct ttcaa 315

<210> 31041
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065f06d1

<400> 31041

ggcagaaagt gaagagacat taacattaca accctttttt tggataaaat tacaagacaa 60
 actaagaagg ttcagttcca ctacagccta gtagcaggac ttgccactaa ttgacatttt 120
 aaggttggat tcaaaaacca tcaataaaaa atgtaggaag aagaaaggtc aaggactact 180
 acatcactgt tataccaccc aaacccttgg ccttcctcct accccttttt ttgtcgtttc 240
 cttttaatca acattttctt atttaggttt ttgtggccat aatgtgatga tcacttggcc 300

atcatcacct taacgaactc ctctagtagttt atttggccat cgccatcaac atcggcctcg 360
 cgaatcatct catcaacctc ttcacgggtg agcttctccc cgagggttggt catcacatgg 420
 cggagctcag cagcagagat gaacccattc tggtccttgt cgaaaaccg gaatg 475

<210> 31042
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f07d1
 <400> 31042

gagaaaataa cccttttttaa tttataggaa caattcaata cattgacacc accaatagta 60
 tgatttacca acaaaaagcta aaacgctagt cattgagaaa aataaacaag taactacact 120
 tctttgatag cagttcccct ccccatctca acaccattgc cataatcatc attctccacg 180
 aatctggacc agaaggggtg tgcccttcaa acctggttca tttcttcaat gggaatgccc 240
 ttggtttcag gcaagaagaa gtagatgaag aatgtcatga tcaacacgaa aaaggcaaag 300
 aagatgaaca agccgaactt catgtggcaa agcattgtca agaagacttg tgcaatcaag 360
 aaagtgaana acatgttcac cgacacattt atactttgag cagccgaacg gatctccaag 420
 ggaaagatct cactaggcac caaccaacct aggggacccc atgaccaggc aaatgctgat 480
 acgtaaattgc aaatgaagag aaccacaaca actgcttacc attttggcaa 530

<210> 31043
 <211> 544
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f09d1
 <400> 31043

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 atagtaataa taataaaacc aattcaatgt gtagggatgt tatttctccc ccggggtagt 120
 ccccaact ttcttatcag ttatcacgaa aaatttcgga ttgatctgca aacatagggc 180
 attgcagtat gatacaacag agaagcttat ttacatctga atctttaaat gaaataaata 240
 atgagattaa ctatgaccga tcatcatttt gctcatttgc actagctggg ctttatatat 300

agatcgtcac aaaagcttat tgaacacatg gctggatcag ataacatata tatatgacac 360
 ttatcaagga ctgactataa acatccaaaa agtagttctc ctcagaaaag agaaagaatt 420
 ggagttcaac gtatgattga tcaactgcct ggaggttcat aattatctgc tttcatgcaa 480
 attcctctct tttcccattt tgttctctggc tgtagagagc aaagctgtgt tgcaactgca 540
 cgta 544

<210> 31044
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f11d1
 <400> 31044

aatacttgaa attttttacg ataatatctt ataattgaat aaagcaatac tacagggtaa 60
 aaagtcagat cctatttggg gcgaagcaca tacatacagc accgctaaac aatcaccaca 120
 atcttctctga tgacatcaag gccaatacat aatttaatgc tccaacaaag cctcgttaacc 180
 ttagctgaat tgattgtaca ccaatcagct aagtctaacc ttactctctc cacacgatca 240
 aaaaatgaaa agggaaacaa aaaaacttag gctccaccac agaaaataaa atggagcata 300
 tgccactggt taagttaata acaatacatt cctttttcat ggatatcttt cttaaattatt 360
 atcttctctg atccactgtc ttcattcatc aattagatca cgtaacttgc cttttgacaa 420
 acttgattgt gcaagctgag ccaggaaacc ttcattcata tactcgc 467

<210> 31045
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f12d1
 <400> 31045

cattcattaa ctgtttggaa ctttggatta tatcacatta cctctttcaa acaaaccaga 60
 catcacaaca cagtgaagtt ggagaactag gaccggccag caaaaagaga actaactagt 120
 accaagatcc atcatacatt aattgattcc tcacatgact agagaccaac gaagctcact 180
 attaattggt tcaacaacac ttgcgatatt atataatagt attcgtgtag atacgaacac 240

accaacactt gatgacaacg ccattctcatc ccttttggca aaagcaagct ttaagtccag 180
gaggaaaatg gagcaatcca aaagtcagtt cttggctttc cctttctggt cagaatggcc 240
atagtaaagt tgcaagcggc tgccatcaaa aacagaagag aactgatgct ggtgatggtt 300
gttgttgttg ttgttctcca tggcaggagc agcaactgca gcagcagaag aagcagctcc 360
aatgaagaaa ggtacagtgg atccgtctat aggcgaaaac ctctgcgagt gaggcaacag 420
aaacggagaa ttggactgaa gggccccct a 451

<210> 31048
<211> 521
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g04d1
<400> 31048

aaccaagaat tgtccttcca taataattaa tgaatgttga ttgttgaata ctcatgcaa 60
ttacaaggat taaagtgtaa tgaggagaca acaaattttg ttcacttaaa gttaaacc 120
agattatggc agctgttgtc acatgggtaa gcacagtcaa tagctttgac aacttctcga 180
tcaaaatacc agtctccaac agcaactgca attggcttgt cctcgataag gggagagtca 240
tcagcaaacc atgtctcctg tctctcagac tgacaatgag caaaacaaga atttatgaat 300
agcccagttt gagatgagct tgagaagtct ttaatgtcac ccagcatttg atttctgaag 360
tcttgaagga actgcatttg agatgagcta caatttgcac ggttcgattt gcattcattc 420
caagaaccaa ggcggtcagc tgaaagtggg gctaaactgg cttggacctg ccacacatca 480
taagcagcat tgagtagaaa caatgggggc tcaacatgtt c 521

<210> 31049
<211> 560
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g06d1
<400> 31049

aggggaagag aatgataaca tgggtctaate ttaaaacatt ttacacaaga tttgtaatca 60
aactaaagat tatgcaaagt gacgtaaata aataataaaa aatgcattaa tctgttacta 120

gctaaagtag aacaatgtgg tgttgccat ggattttagg atcagctgct caatcaaaga 180
gatcattctt atttgaagc attgaaatgc taatcaagct ggtacctggt aattctgctg 240
gaacagttac agcctactat gtaagttcac tggatctcag agatctcaaa aacactaaaa 300
tatgttcttt tgaacaacca aatctatcaa actcccgtta ctaaatagaag tgtccatggt 360
tctcactcaa aatccatata gttatcctct gcaggaagcc agcatgacga gataagattt 420
gaattcttag gcaacagtac aggacagcca tacactgtcc acactaacat atacacacaa 480
ggaaaaggaa gcagagagca acaatttttc ctctggtttg acccaactgc tgattttcac 540
aattacacca ttcactggaa 560

<210> 31050
<211> 374
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g08d1
<400> 31050

aaaaaaaggg gcttttgttt ttttcccaag aaaaaaatta aaaaatttcc cggggggggg 60
ggggggaaaa aaaaaaact tttgccccac ctaaaagaaa gaccttaaaa attagggggg 120
gaacaatttt taccttctgg gttctgaaaa aaagggggcg gggggccctt tggggaaacc 180
ttttccctt caaaaggggc tcaatttggt tcgggaaaca aaaaaaatt tttcaaaacc 240
ctagtttttg ggtggaaaaa cttgggcccc cttccctttt gggaaacata aaaaaaaac 300
cccttcccca attgaaaacc cccatttttt cccttttttt ttttaagggg ggtttttaaa 360
aatttttaaa accc 374

<210> 31051
<211> 451
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g09d1
<400> 31051

aaaaaaaaa tatatcacat taatcatgac atccgttttt taaataaaaa aaaaacttat 60
tcctcgtttt tcacaattta tataacattc cacttcttcc tttatagtag tctttggcaa 120

agagagaatt taccctttt taccggtcac attaaacaac aaaagcagag gttaataaga 180
 atttttagaa acacactcag aaaccgaatc caccaccacc tctattatcc attcccctgc 240
 ttcagggcctt ccgttcccaa cgaccaatat ttacaacat tacacaacac attgccacgt 300
 gccagtcttc aaacgaggggt cttgcatgtc gaagtctgcg ggtcccacat cgctggcacg 360
 agggaccttt ttccattcgc accatgcgca ttgtagctag ccccggttgc tttatccacg 420
 agaaccggac ccggataccc gggtacgac c 451

<210> 31052
 <211> 398
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065g11d1

<400> 31052
 acttgggaacc caaaatttta acttggttagc gacagaaaag tacacgagat ctccatcatc 60
 aatcaattca aacttaactc ggaagaaaag aaaaaaaaaa. aaaaaaagga cccaattccc 120
 gggcaaaagt tgccatttta agacttacat ccacaaacaa gaaacaatga ttgccacggg 180
 catgaaaaaa cctttaactg tttttttatt caaactcact ggattcgaag catcaaccga 240
 tgaacccgat gaccagatg aagcatcagc agcccctgcc cggacatttt tttccggcctt 300
 ggatggcgca ggagcctccg ccggtgcaac aaccggtgcc gtcgcgccga aaagcttcat 360
 aggaagaagc accttatcca cctgatacac tgagagct 398

<210> 31053
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065g12d1

<400> 31053
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 cacataccaa aatttaaaca aaaaaggtaa aaagaaagaa attaattggcg tgtttgacaa 120
 ataaaattga aagtgcagct gccaaatgga tcaactcaac atggttgcaa ccaaagctat 180
 cacaagcgac atcaacgttg ctccaccaat gctaaccaca ctactgccc cagatttatt 240

ctgatgctga tttgtttctt cttgatcgtc atcagaagag ttatccttag cagctttggg 300
 agactttgca agagttgatg gagctgaagc tggagcctta ttggttataa agaaatctag 360
 aggaagaagc accttgtcca cgtgataaat cccaagtttg ttatctgagt atactacccc 420
 gagaacgggtg gcattgacga ccccggttga aatggtgaca ctgtttccta atgcattcac 480
 gttcaat 487

<210> 31054
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h01d1

<400> 31054
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 atcaggtata ttttcaacca ctaaggcttc ctggttttga ggatcaggag ctagagaacc 120
 aatgacctct gcatcatgca tttcatcagc atccattagg gcctgatttt tccttgaatt 180
 .caaaggacaa ggatctttta gaacttcaat tttagacaat tggaaatctc ctgcacctga 240
 aacatgaacc aattgattga ctgagagggt accagaacca aggtaaccag tgagaaacag 300
 ggggcatttt tcagagggtc catcatattc tgcacaaacc ttttgagaca agaggtatga 360
 tcgttgaggt ctccaatgag gaactttaag cctttgctct ttaaagagcc acaagaactt 420
 gtgtagctca tcctttgtat cagctggata aa 452

<210> 31055
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h02d1

<400> 31055
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 cgtgacagta atataactaa tgaattcatc actacacaac gttaacagggt tgatgggggc 180
 catcctttga gttttgcacc tgcaaatgat gagcattggt tattcagtga agcgtgcaac 240

agaaaatgtg aacgtgtttg atggcttcaa aatgagttaa taacgggcat aattttgtct 300
 ttgctttaag gacattcaat ttgctccctc taaacataga aaaaccatat ggatgagaga 360
 atgacctgtt acactgtagt cttgaagcat aattatgatt gttgcaattt gagcacatcc 420
 aatctccact acgccattgc tttgctctaa cagggtacaat aggtaaaaat gtatttaaaa 480
 tgtgaatcta gaaaagtatg atagctctt 509

<210> 31056
 <211> 453
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h03d1

<400> 31056

atgaaatcgg ttctgtttta acaaaatgta gcaaacagaa aaggataaaa agaacgatgc 60
 tttacttaag aataatcgaa atgaacaaag gtgataaaca aagggtgaaca aaagtgaag 120
 aatttacaca cacaagtggg gagtcagttt agcataaatg tttcaagcca ttaacaaagg 180
 taaattccct acaagggcat catctcaa atgattctcact ttcataagagc taaagggcaa 240
 ctgcagcaat ttagtcatag gataaattct gaagattact gaggattggg aggacggcta 300
 ttggcagcag aaacccttga gcccattca agcaattctt tactgggtgtc atccttatga 360
 acaatcacct caatgaagca taaggagtct ttcttgggtt ctgtggctgt ggcaattgct 420
 tcaactagct ttctttttaca gaacaccttg gca 453

<210> 31057
 <211> 421
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h05d1

<400> 31057

caagtaatct caaaccattt gagtatatat tattttatgt acttaacact taacacagta 60
 cacatgcata tatagagcaa cacatttcaa ggaaacattc tccaaaccat actgatctcc 120
 caaaataaac tggaagatga ttaacttaaa gacacacata tatatataag ccaaagcat 180
 atatatatat aagacaagta gaaggaatat gtcataatt gggttgcttat gcttcagcca 240

aagagatggg ggtgcttctt tccatgagct tctcatctt gtcctttgc ttcctttttc 300
 tcatgatgtt catggaaggc aaaccaccca gatccactg cagctgctgc tgcaacctcc 360
 tcttttatct tgtgcctgtg agcatgctct gggcttttct ctgccttgtg cttctcatgc 420
 a 421

<210> 31058
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h09d1
 <400> 31058

ccaaaaccaa ttgatttttt tattcatcaa agttgctctt cgaatctggg ttgaaaaca 60
 gcccggggat caaattggca aaaaagttt tctatagcc aaaaaaaaaa aaaaacaatt 120
 gcagttacag ccccgagatc aaaagatgaa ctttgtttta agacagcact ttttcactt 180
 caactgtcac cttttggggg ggtttctcag catgaaaatt agcaccaggg cccttttttg 240
 aatagtaatc aatacccggt tcggtttgct tgggaaatgc ctccagtctt aacttaaaaa 300
 cagctgcagg gtcaccttg cgctggataa ggggttcacc agtaacatta tcaacaccaa 360
 gaaccttagg gggagcaaat tttgtttggt aggttctgcc actggatgg 409

<210> 31059
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h11d1
 <400> 31059

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 caaggaaaac tgggaagttg ttgtatgtg attgatttgc cacagcctta tatagacaaa 120
 ccaaagtctt aatatcaaca caaacacgtg tacagaaaag aaaccactct tcaagaaaac 180
 agaaaataag aaaaactaac atattggaag aggtgccccca ttccactccc caaggcattc 240
 caaaagtgga tcaatgatct tcccttgga caaagcagtg aacactttgt cacactcttc 300
 acccggtgag ataacccttt caccagttag caatgctgtc cccaactcct ctctcacaaa 360

cttgtagaag gggtaagacc tgcattcctt gatcttggtt ggaattgcac attggtcatt 420
 ctcatatgca actcttgcac cttccacttt cttaggcaaa agggctctta actcttcctc 480
 aaatggttga atcttttgga a 501

<210> 31060
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h12d1
 <400> 31060

aatatctctt taattggacg gtgtgcagca gttacacaca aattcttttag atcgcttccg 60
 gaatatccat cagtcatact tgcaattgca tccatattaa tatcagaaga caagtcctct 120
 ttgtccagta taacttttaa tatttttgct ctatttggag catcgggcaa atttaccatt 180
 aatctccgag gcagcctccg aatgacagcc tcacttaggt caaaaggcct attagtggct 240
 gcaagcacia gaactcgctc agtatccttt gtgcgtaagc catcccagtt caccatgaat 300
 tcatttttca tcttttcgat ggctcatgc tcccaggat tttcctcct gcccaacatg 360
 ctatcaactt tgtcaacaaa taccagcta ggagcaattt tactagccag ggaaaaaaca 420
 gctttgacat acttttcacc ctaccaaac cacttagatg tgatacttga catggaaatg 480
 ttgatgaaa 489

<210> 31061
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a03d1
 <400> 31061

aaaggcttat tcagttattt gataccaga agagtttctt gttagggtgt gtgaagtggg 60
 ccaaaatagc catcaaagta gcttatcagc tttaaggcaa gaagaaacaa aaccaattct 120
 ttgggtaaa agaacttttag aaaaccactt tgccattca actaaacaca acaatgaaag 180
 atgaattaaa aagtcatgtt acagattcct ctgaatgaag tccacatcc tcccttccat 240
 gtaaaactcg tcaactatgac gccgaggcat gtgccgttca tctgggaaaa ctattagctc 300

atatgatttt ccagctgcc caagtgcatt gataagtctt gcagtgtgcc taaagtgaac 360
 attctcatca atcatgccgt gcacaagcaa caaccgccct ttaactgggtg cacttggttc 420
 ataacagaac cgctttcata tcctgacttg ttttcagatg gcaaccccat gtacttctct 480
 gtgtaaaacg tgtcatatcc atcccatg 508

<210> 31062
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a06d1
 <400> 31062

aaaaaaaggg ccccccaaaa aaaggggggt gaaaaaaaac aaaaaccccc cttaaaaagg 60
 ggggggcccc cccctaaaa aaaccctggg ggggcccccc cagggggggg ggcccccccc 120
 cctcaggggg gaaaagtttt ttttcaaggg ggcccaaata aaggaggggg gaaaaacccg 180
 ggggggaaaa acccctttta attacaaaag gggggggggc ccggggggta atccccccaa 240
 aaaaatcccc ccggggggga aaaaccccc ccaaaggggg gggcccccaa aaaccccccc 300
 ctttttttcc cccaggttg gggcccccca acagagacct acccaccacc caaacataa 360
 aaaaccccg gtggaaattt tggggggggg gtggggggcc cccctttttt tcgggggc 417

<210> 31063
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066a07d1
 <400> 31063

actattatta catagcaact gaatgctgat ataattaacg aaaacagcta cactgagtag 60
 tgacatatat catcacttct ctccccactc tgttcttttc ttttctataa aatgaataga 120
 aaggtcacct tactgcagct gacttccaat tttctaattg tggttatcac tgagtatcat 180
 ttaataacac agcaccaaag acttgaagat attcatcaac tattctttta catttgaata 240
 tcgattactt gaaccttctt tgtaagacga agcatattat actgtttatt ttaaagggga 300
 aaatatatat caatcttgaa tattgaaata aactgtgtaa tgctcgtctc tgaatgagag 360

taatggctgc aaaagaaaat tcctgtttgc cccttttagcc acaaaactga taggattgta 420
 ttggctcaat ccttgcagag caacaaagct ngctgcttgg ttaaaagtag catcagaatc 480
 agatttgcaa ctgagcttga ctctgcact agggctcata ccactgtaca cata 534

<210> 31064
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066a08d1
 <400> 31064

cataaggaaa aataatgggtc cacaacacac ttaaaaaatt attatcataa agtttttctt 60
 tccccaaaat tcaccggttc ctcaatattc cataaaggaa tacgaggtat aacaagattt 120
 taaaaaatat gccagggggg aaatctacta agataaggga aaaaatacaa gtttcagaat 180
 ctggttctta attaatacaa tagtaactaa aattacaaat gaaaagatgc atttgaatag 240
 tgcttggtac ttcagaagaa tcagcagagt ccaaaactaa atgattgatg catcttatga 300
 gggatatctaa tgacccatgt aaggagcacc agcaccagga tgagggtctca caccactgcc 360
 ctgtcccatt tgaggattct ggtatccggg ttgcattgct ggctgggtcc catacccat 420
 agcaggctga ttgcatacg gagcaggagg tccgcctgg ntaactgggg ccccccaag 480
 ccctcaagca gattcccagc ccc 503

<210> 31065
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a09d1
 <400> 31065

aaaagggggc attgaaacaa gccccccctt taatgctttt aaaacaattt tttttttttc 60
 aaccccagca aaccccctgt ccggtttgag aaagccacac ccaaatttag ttttaciaat 120
 gcttgtaaaa atttgtgagg gccccccctt aaattaatat ctacacttca ccctgggtta 180
 tttaaaacaa ctttgcttcc acttgtctaa tcataaaaac ttgtgatggg gggcaaaatt 240

tccggagtta tgttgccac acacttcctg agggaggggt gggcatactt tttttcccca 300
 aaaaaggacc tcaaaaatcc tggctttct 329

<210> 31066
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a10d1
 <400> 31066

gatgaaaaac ccaacaaaat aacgatattt taactcaaga agtgccacta attaaagtta 60
 ttataaaaacc agcttattag agaactatac atataaaata ctatataact ctaaaattga 120
 ttctaattct atagtgatct tcaccctata aatacaatac agagagtagg taggttttga 180
 attactttat tgatatatta acaaatactt atcaagaaaa ctccctgctt tcaacatcta 240
 gacatattaa tctaaccata gcatcgaatt ggatcattgc atcccttaga agcagattgc 300
 ttggaaccaa atctccctcc tttctcaagg tactgttgat ggtattcttc tgcctgtag 360
 aacttcttgg caggaaggat ctcaagtaaca atcttcctgt tcagcttctt ctgttgttgt 420
 tccagagact ctat 434

<210> 31067
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066b01d1
 <400> 31067

aataatatca aatttattat caatttgtgt atgcctacac aagtctatta ttaatattag 60
 acaaacatga catgattact aagacaagaa ctttgccaca ccaacctagt agcacgcagt 120
 actatacaaa catttgaaaa ccaacaaact ttaacgtcag aacaacttga ggcaacgacg 180
 caggcgcaag gaagattagg gcggtttttt ctttactcat gatgagttac ctccctctgta 240
 acggagaagg gaatcaatcc tctgcaacct caactgtttc ttgaacctgt tgatgaaatc 300
 gtcagctttg gcgtctactt cttcgtcttc tctccaagac gtcgtcgttt caaccggcct 360
 cgccgtctgc ggccctccgt tctcgacctc ctccactcg ctatccgtca aacccctct 420

cacgctc

427

<210> 31068
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066b02d1

<400> 31068

gttgtagaaa agcaatattt taatgttaag aactgattct tacattagaa ctgatcttac 60
actggctaca agcggtttctt accaccaagg aatagctatg ctctaaatcc aatctaaaat 120
atggtcagta cccacatcga gaatgtttct tcggagatag ggaaagggca aatacatagt 180
ttcgattgga ccagttctac ttatccatcg aaagcgatcc ttgtgatttt gtagaataca 240
ttcatctacc taaacagaaa caaaagtgtg gataaaaccg attctcaaag aatttcaaac 300
taatagtaca taccttttat ttattcaaat taaaggaaga tcaattattt tgttcaatgt 360
agcgcttggc tccatccaaa gtattcttca gcaacattgt gactgtcatt ggacctacac 420
caccaggaac tggagtaatc caaccagcaa ctttagatgc ttccccaaaa tctacatctc 480
caacaagcct tgtacctgac ttctttgttg ggcatcaac agcatttgtg ccaacatcta 540
tcactgcagc t 551

<210> 31069
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066b03d1

<400> 31069

ccggcaaaact gcatttcatt aactacacat aaaatagcat tagtcatggt tgaaggaaga 60
taccttgtag atcattttctt ttcttattgt cagaatttta cagggtgtcag aatacccaca 120
gccacaggtc attetaacct aagtgcctag ttagacaaac aacaactgca ggacctagaa 180
acacatcgcc actcccaaac aaactaatag ttgtctctat tacatcatct tcattctctg 240
ctaatagctt atcaacaaga actaagaaca caaatcttat cagtcaagtt acagaacctt 300
atcaacatgt ggtcaagatc agttccaact atactggaat taacaccatg caatctgtca 360

catagaatgc tgtcagcatc atgaactcct aaaaatatga tgacggccca gaacttcagg 420
 tatccccaat gccgaaatgc tttcacagcc aaagatctcc tgaagcttcc catcacacac 480
 tatagccata ggattcgcag gatcctctag ctgggtgact ttaatgtact ccc 533

<210> 31070
 <211> 258
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b04d1

<400> 31070

tcgccttttt tttttttttt tttttttttt tttttttggg aacgaaaaaa agggatatca 60
 caaaatatat gggtattttac atgggtccac ccgaaataca ttttcagaga agaaaaaacg 120
 aataaacata taatcaacca attcaatttt cagaacagtc tacacaagaa acagaagctg 180
 ccaccatttc attaatcatg ggctaaagca aatcccaatc ttcccaactt catgtagcag 240
 gtgtttcaaa aaacaaca 258

<210> 31071
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b05d1

<400> 31071

gctaaaaagt gccaaatcgc atgttgctag cattttctaaa aaatacaatg ccacaccatt 60
 tctacagttt tcgtgtgaaa taacaccact tgaaaaaaa aaaaaaggag tattacaatt 120
 tcagcatata gtttatctat ttaaaattac aactaccatc ccacaagggg atatcactcc 180
 cagtaaaactt tacataaatt gaagcttggt tagctccata caaaaatcca atttggtga 240
 aactcaggat atgaatgggt gtgccattaa aatgtaggtt aaggattcct caatgtgaga 300
 atcgttttacc taccocgcac gctggccgaa gattgaccac ttcttacgct gacaatatca 360
 tcatctattt cactattatc taaacaaaga cccttttgggt ttacactcac ttcagaacta 420
 gcattactgc ttg 433

<210> 31072

<211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066b06d1

<400> 31072

ctagttctgt ccgagtatca gatcagagta ttgtacaatg aggagatttt atggtactaa 60
 acaaggtaca ctacttttgt accttgtttc aaatgggtga gtggtgtagt gaacaaatta 120
 aatgaattga aagcaaaaat cgaggtggga aagagatgat gttggagaca aatatagaac 180
 acgcccttac cctatccctt ctaagcttta agacaatgat catcattcta gcaaagacg 240
 ctgtggttga aataacaaaa agccagaaag gtgatagaaa atatcagaga attcttctct 300
 gtacttggga ccaaattatc ggtactattc atttagctta cagttttgaa gatagggatg 360
 attgtacttg acatacttgg tccagtaaga ccgatacttt gtcattggcaa tttctaacca 420
 tggcttcata ttaccattgt agtgtacaac tgctgcattc tcaatctctg atcgatccaa 480
 acttttnatta taacccaaac caagtacatg ccatgattta tctagtggat 530

<210> 31073
 <211> 352
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b07d1

<400> 31073

gggagcaaac ccccttttaa gcatttatga gtagaaaata ttggcccca tatgttttga 60
 aacattgggg ggagtacatt tcacaactgg gttaacaaat taaaccatac tggatcccta 120
 aacaactggg gggggggaac aaattcccat aacaaaaaaa aaaggggaat tcttcaacat 180
 gtaaggggaa aaaattaatg gagaaataaa cttttaattg acttgacaaa actttggggg 240
 tagctagctt ctttcatctg gtttttgggg aatgggtcaa gaagctaagg gaagtccttg 300
 ggaagggctt gaatgatact gggggggacg aggggtggga ataacctctc tt 352

<210> 31074
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b08d1

<400> 31074

cgagggacaa agaacaaggc aaatactgct attcaccaat attcctaatt ttgtacaaat 60
gttttttctt ttaaaatcaa atacatagaa aataatggaa gttttaacaa cggcttaacc 120
gataagagga acaaatcatg acgaacaatc ttgatatgaa agcaatgtga aaagcttggt 180
tttaaagtcc actgagacac atgaactttt aaaccccaaa aactttcgtt ctctttaagt 240
cgagcagcaa ccagcctttt gggttcaactgg cttgcctcga aattgaactg gtggaggcct 300
cgcattgttc actggctggc ttgccattct gtttttaatt tcagcagcca tggccatgaa 360
agcctgttca acattgggtgg catttttagc actag 395

<210> 31075

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066b09d1

<400> 31075

aagatacaac tttttcatct tttattcttc gcaccagaac atattacact caatcaaatt 60
gagattaagg attgaaacta gcaccaagta attaaagtaa aacgacaaag gatatttagc 120
cttacaattt acaaggcata gtttccttga caatcaaggg aaggaggagg gcacacacaa 180
acaacctctc atcctaaacc catctataaa aacattcaca gcacatgcaa cacgggaaaa 240
ttatctacaa aaggatttag atttcaaaaa acacaatcct tcttattctt ctagcaattt 300
gctagtagtt tgcttaatca aagcttgatg agcgactcca ccggcctctc aagtagttct 360
ccaacgagac gttttgctca acgctgcaca tggaga 396

<210> 31076

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066b10d1

<400> 31076

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tttcaccagg gggggggggg aaagcaaaac cctcccccca aaaattcaaa attcttaaaa 120
 ataaaaaaaaa gggaaaccag ggttgaactt taaaaaaaaat ttatcccccc cagcttgggt 180
 tcccccaag caactttatt tagggggcct ttttttattt tagggcccta ttaccgggggt 240
 ttctaagggt cggacaaaat tgggggtggt cattatggga aattttatgc ctttgctagc 300
 tcaaaaccaa aaactg 316

<210> 31077
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066b11d1
 <400> 31077

catgttcaac attattgact gttaaattttc aaggatacgt agtggctctt taattgctcc 60
 atgttacata agcaaatggt ccataattac atttataaat gtgttaaccc acaaaaggga 120
 ttatctattg aatataacta ttacattat tattctttga ttctcacctg aattacatga 180
 tacaacatct cagcaccagc cccttttgat caatcctgcc atcttcattg ccttcagggt 240
 gctgagctag cttccgattt tgtggagaca tcatttcttt cttcaattgc atcaaaatgt 300
 cttccattgt acactctctt tgccaattag caagcatagg aaacaaatgt ggctcaacca 360
 ctccagtttt ttggttgaca caagtcattg taatcctagt ctgaaatcta acagctgggt 420
 gattgtctgg ataat 435

<210> 31078
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066c01d1
 <400> 31078

ggaataaatt cctttgcatt gataactctt gaagctcagt gtacatcatt ggcttttttag 60
 gcctgccagg ccctagctag gggtttagcc actcatggcc attgagggct tacaactggg 120
 gatgaaataa agaataggct acaaaacaaa gaatataaag agggaagaaa actcaggctt 180
 gaagtactga gagtgatgct ctgagatggg atcatttttt cttgggactg tctctctatt 240

tatagtggct gaagtgggct tacggggcctt cgtagttgcg ctcagcgcca cacctcgcg 300
 ttagecggtt cagatcgcg gctggggcg ccatgcacgc tgggcctgtg cttctgttgg 360
 atcggggcgt gggcgctgt gcgctctgtt gatcggggcg tgggcgccta gctggggctta 420
 gcgcgcgtaa cgggtggcagc ggtttctgcc acgctaagcg ccttcagtta gatgctcgct 480
 tagcgctga tgcgcgctga gcgcccctat tggataggcc tgcttcagaa tttctctctt 540
 ttttttcttt c 551

<210> 31079
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c04d1

<400> 31079

aaattcaact ttagaatcaa gagttcccat tgtactatct tgattacaat tacagttaat 60
 tacaatttca tatacgaaat cacaaatccc aaattccttg aaacaagttt gctaaattaa 120
 aaacggaaaa tactagaaat gaacggaaaa ataattaaca agcactacta ctcctattat 180
 attattatta ttacaggaaa ttggaagatt taagcacagg cacacgaagt atcaacgaca 240
 agggaatctt cgccctcggt cctgaagaag aagtaaccaa cagcaagacc cacgacgacg 300
 gccacaaaca cccaccggtt gaaggacatc accgacaaca tcagcaagta cccgatcgcc 360
 gagctcagcc cgaacagaaa cgctccggct accttcacgc ccaccttggc gcgggtttccg 420
 gcaagcttcc gtgcgagaag cggggcctcg atctctgccg ggaagggatt tccggcgccg 480
 atgagcttga ggcggatgcg gcgat 505

<210> 31080
 <211> 409
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c07d1

<400> 31080

aaaacaaaac gggcgggctt tattttttct tcattcaagg agaaaggatt cattgtccct 60
 ttaaggatct tgctgggctt ccgtacttgc taatttggct taacaaaaaa acgtggggaa 120

aaaaagggaa aaaaatgccc aattcctaaa atgaaaaaaa aaagcccata aaaagggact 180
 aaattaaaaa aaaaaactga aacaaatgct tgaagcattc aattgaaaaa ggagcctttt 240
 tcataagtaa aaggggaaat tatacccatt aaggaaagag ggaaaagggg atataactgt 300
 gggtgaaaaat atctataggt tgtttgttgt aggtcaagat tgaaagatga tctgtgtata 360
 gaggaacca ttccaagtat caggtaatcc tggttaagccc ccatgaatg 409

<210> 31081
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c08d1

<400> 31081
 gcactctacg aaatggctcg tcggatgaac acaggcggtta catagcattc atacacgagt 60
 aatatgaaat tacatttata ggacaacaaa gactaatctg caaaagttag aagcagccta 120
 gacatccctt ccaatggcaa cagtcgttta cagcatttgg ttgataacca tacatatatc 180
 actgtcagtt ggggctaatt cttttaagac attccccata taattcatta cactgataaa 240
 attaaaatca ccaagagaaa ggaaaaccta gtcgagcacc attgttaacg aagcaaattc 300
 cataacttggg attggctcat tataatgttt acccacagat aaacgggtag aaaacagagg 360
 ataagcttgg accgaaaaga tacttgtatg tacaatgtaa gcttattcac atgaaacac 419

<210> 31082
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c11d1

<400> 31082
 ggatatatca ttattcatac ataataattt caaggaagta tatacacact aaacttgtga 60
 aatcccaaga aaacatagct caggaaagaa ttttagttta aaacaatgag ttccagaatc 120
 acataatccc aagcaaaatt tacgggtttc taagagccgc caaacgcttc tcaagttctt 180
 caatgcccga gctgctatca ttttcagcat tctttgttgc gactctccct ttgggagctg 240
 ctgataactg tgaggcaaca tctacaccaa tttcatcgag cacctggttt gtcagctttt 300

cagtctcttc ttcagcttca tcattatcca aggcattcatc tatggcatct gacatcattt 360
cagtagtcat atccatctgc gctgattgtt tctgga 396

<210> 31083
<211> 359
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d01d1

<400> 31083

aaagccaaac aaaacgttcg ggctttatctt tttcttcatt caaggggaaa gggttcattg 60
gccatttaag ggtcttgctg ggcttcccga cttgctaatt tggcttaaca aaaaaacgtg 120
aggaaaaaaa gggaaaaaaa tgccccattc ctaaaatgaa aaaaaaaagc ccataaaaag 180
tggcttaatt aaaaaaaaaa aaactgaaac aaatgcttga agccttcaat tgaaaaaggg 240
gcttttttct ttagtaaaaag gggaaattat accctttaag gaaagagggg aaaggggaata 300
aaagtgtgtg tgaaaatatc tatagggtgt ttgttggagg tcaaaattga aagatgatc 359

<210> 31084
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d02d1

<400> 31084

caagacagag aagtaggtca atattattat tataataata taggaaagga gggtgacaaa 60
ttacagtaat ggcccatgcc acatttacag aaccagcacc caacaatccc atccgtttta 120
cgatacacat tcattattat tttccttat caccatattg gtagtgatta caatttctca 180
acagactcaa acctagaaga agaagaagaa atcctcatca aatctcagac tcagagacca 240
tggatctcaa tactgcaata tatccgcaga agccataata ggggtggttca gatacccat 300
attcaacggg ttgaagaagc tattattatt aattgggtca acgaaggtgc tcgatgttgc 360
tgctgctcca aaa 373

<210> 31085
<211> 291

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400066d03d1

 <400> 31085

 aaaaggaaac cccattatg ggccccataa aaagatttac aatgttttcc aaaaaaatg 60
 gccccaaaaa aaactgtttt aaaaaaattt tttggggaaa acacccttaa aaacgggggt 120
 cttaattacc ggccaaaggg gggggccccc caaatccctt ttgaaaatg ttccaagcta 180
 gccccccctt gggggggtgc tgtttgacct attttgttcc caccaccac tggtggaggg 240
 ttctggtggt gcacatttta aatggaaaaa atgccccca aaccattggt g 291

<210> 31086
 <211> 329
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400066d06d1

 <400> 31086

 aggggcaagg gaaattgcgt tcttaatttt ttattattga agacaagcaa agggggctgg 60
 tgggtacaat tcaaaagcca gacaagcctc taaaaaccag ggcttgtttt aaaagggaag 120
 aaaaaaata gccccaaagg ggtgccctgg taccacacca aaggccttgg atatgaggt 180
 cctagcccta aaattggaca acataaccac cctgacaaga ccgggggaaa acaaggtaaa 240
 ggctcttccc cacttttagg tatggggaaa agcgattgtg gttaacttaa aagaccgaag 300
 actttaaaag acatgaactc tagcttttag 329

<210> 31087
 <211> 480
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400066d07d1

 <400> 31087

 gcatgtaata aaggtatcat agcatatagc atagcatagg tatttcatac attgttcttt 60
 tgaggagcac atgcagcaat tcagtcttac tacatgattc tctttattta gaaaacaaag 120
 ttttaccat taaacaaact tatcagctag gctttgcacc ttagacaaac tgattaaggt 180

actcatccac agtgatgtat ttcacatcag gatatagagc tgaagcttcc actccaaaag 240
 aagactcaat ttcaaagtta gtatgatccc cctttacata agaagagtgg ttaattgaca 300
 ggatcacatt cacgggtggt gcggactctt caatttgctt caggagtgtt tcttctggaa 360
 catagattct ttcaagagtt ttaccaatct ttcctccca gagagtaaca agctcattaa 420
 acgacaaggt attagctggt ggtctaattgt agagaatttc tgtcaagggt cttggatcat 480

<210> 31088
 <211> 270
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066d11d1

<400> 31088
 gaaaagaaaa acaaatcacc gttactagga aatcagatat tctttacaat tgttttcact 60
 tctattttcta tgtactgaag cattacaatg accaaccaat tggcaatttt cgtattctat 120
 aatataacta ttattggaac ccgaagataa acaacaata aggaaaaaga aaaaaaaaaat 180
 caacgaataa gtacatctaa tttatgttcg tgccaaacc cgagtcacgg actcactgag 240
 tcttctctgg ctcaccttgg ttcgggggggc 270

<210> 31089
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066e01d1

<400> 31089
 gaattacaga aacgcattat atcgttcatt catcccatag gccataacaa gaaagatcaa 60
 ccaagctctt ctagaaaaaa caaaaatatt agaagaagga accatatgag aacttagacg 120
 taggagacga gcccttgaga caataattaa ttaacagtga cttttccac cataccagct 180
 ccttggtgag gcgaacagaa gaaactgtag gttcccttag catccaaagt aacgctgtaa 240
 gtctcaccag gcgcattgag aaggtcttca tcgctcatgg agattttccc tgcattccag 300
 ccgctaggaa tctcgtcctc gtgcgaacaca acgttggtgg ggaaacctgc gttgttcttg 360
 aacacgatct tctccccaga ggccacggag aaattgttgg gaacgaaagc cagagacctg 420

tcatcaccac ccagcaacac

440

<210> 31090
 <211> 521
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066e02d1

 <400> 31090

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 taattttctca ataacaaggt gttgcaaaat aataaaatat aactagcaga aaaaatccag 120
 agagaaacaa aacattccaa cattgctgaa acataaagct ctaaatocta atttctaaac 180
 tagaagagtg atgttccctt gcccttcttg tcaccaccaa tctcaaagtg cttgcacctc 240
 ttaatagcgt gttgggagac atgcttgcaa ccctggcatt gcaacctcag aacaatcttc 300
 ttggtgggtt tagccttctt gtggaagacg ggcttagttt gtccaccata accggattgt 360
 ttgcgatcat aacggcggtt tccttgggca gcaatgctat ccttaccctt cttgtattgg 420
 gtaaccttgt gcagcgtgtg cttcctgcac tccttactct ngcagnatgt cttctttgtt 480
 ttcggaacgt tcacatgggt gacggcgctg gcgatcgga t 521

<210> 31091
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400066e04d1

 <400> 31091

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 ctcatgaca tcaaagtctc aattattgat tccttcattg gcacgaagta aagtcgaaaa 120
 gtactggatc tacaaggaag aaacaatgaa cctagagttt ggagcaatgg cactaggttg 180
 gacgatgtgg tggttaagca cacagtccaa ctctctctga accctctcca tggcttcaga 240
 aggcaaacaa accggtataa ccaaccttc ctctccttta gcattcttaa agggatatga 300
 aaagctagca acaccaggta tggctccaac ccctcccttg gcgggtcctc cataaacagc 360

cttccccac ccaaactcaa tgtttccaaa cccagcacga gtcacatccg acacgagata 420
cgatctcaca acagtgaagt gag 443

<210> 31092
<211> 101
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066e05a2

<400> .31092

aagacgctta actggaagta tcactaagat aagcaaccg ggggaaaaag aanggaaaaa 60
aaacaaaatt ttaataaaaa aaaaaaaccc cggcacagg g 101

<210> 31093
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066e06d1

<400> 31093

aaaaatgcc a ctgctaatta aactaaatat tttagggttg aatctttgca ttttgagata 60
cattaatcac ttcaaaaatg tctgaatgat gttgaaacaa gtgattccag tcaatcatat 120
catgtatgtg atcgaacatt ccaatagaca agcttctttg tgtcttcatt atagtagggt 180
tattgcttaa ccttgaggcc ggcttctatg cgttcaatga gctgatctgc agtcaatgct 240
ccctcaaagc gatcataagg ttctccatcc ttaaacaatga tgaaagtcgg caacgcctca 300
attctgtatt tgtcagcaat gctaggatac ttctcagtat caatcttcac cacctgtatc 360
ttatccttaa gccgagtgt tacttcattg agtatgggaa ccataaattg acaaggacca 420
caccaggttg catagaagtt aacccacaca ggtttctcag aattggcaag ccaatcgta 480
aacgag 486

<210> 31094
<211> 376
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066e09d1

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 aacatacata ccctaatagaa cttcgttggtc agcctccaat tttaggatac actagcattt 240
 ccatttccta taagcacttt cattagcagc aataataatt ctcttcactt gatttactca 300
 ctgttcagta ctgcaaaatt ctacattgaa atgatgtttg gtccccagct aggactctat 360
 tgtgattgca ttgcatgtac gtaacgttac ataggaatat atatttttct tcaagggaaa 420
 attctacgcg taagggtagt aatgatatct gtgtacaagt caactttggc cttagtcacc 480
 ctaatgagc 489

<210> 31097
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066e12d1
 <400> 31097

agacacggat tctaagaggt ctttcaatct aattaaaact gtgtacaata atacgcttag 60
 ttcttttcat ccaccgatga cttcatgaat aaaacccaac tatacgatct aaaattcaaa 120
 ctttttgcca cctgtctgta attaaaaact ataacttctt tacatgtatc attaaacttc 180
 tgtaaatgcc accaatccca attgttaaga ggaaattctt cccatgtctc ttcttcagcg 240
 tgtatgtact tgctggaatt ttgactaaat ggctgtctta attgagaaat agttcaatag 300
 aagaactgta ttatgtatca aaagaaagct gctaccattg gcctggatct gtttgaactc 360
 tatatttctt gtatgtgtct gaaactatga atgtttacat cccactatct atctagtgga 420
 aatgcaaagtg gactgggtccg gagattgagt cct 453

<210> 31098
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066f01d1
 <400> 31098

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 ttaatacaaa tggacttcga accatatatt ggccgttact cccaggaata aaaccaaaaca 120

gatcttcctt caaaagaggt ccaagttggg gaaaaaataa cttggtagcc aagtttttta 180
ctactctttg taaactgaag tttatttggg gtcactggga cttttactcc actgggagct 240
tccacaacgg gagagtacgc tggttcatct tcttcaccaa cgtttgtgac agttctactc 300
acgttaccgg tgctttggcg gggaagtta ctgctatgga agggtagttg atttggggat 360
tagaacacaa cttgaat 377

<210> 31099
<211> 456
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400066f02d1

<400> 31099
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ctcactattc atcttgcccc cttctaatat tgatttttcc aacactcact actttcctta 120
aagagaaacg aagacgttta aaatggaaat gggaataata tcatagagat taatgttcaa 180
aaatttttaa agagagggga aaaaaaggga aggaaaaaat aaaaataaaa ataaaaatac 240
tagttgttat aaatcccaac acaatggtaa tgttgaagaa gcctattggc ttccctaaga 300
ccactgaagt aagctccatg agttgtggaa taatgagttc tgtgagttgc ttccccgca 360
aacaaaattt gaagtggaga tgaagctgca ggaggttgac aactgttatc ttttggcaat 420
ggctctgcca ttgtatctaa atcatcacca cttgat 456

<210> 31100
<211> 489
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066f03d1

<400> 31100
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aaccgatgta tgtatgtatg tatgatatat atagatatta tgatacagat tgcttagcca 120
aagaagcagc aactccagaa aacttttcta gttcaaatcg ccaataacat ctatttggtg 180

aatgaaagta atcacaacta cttaagcagg caccaaagcc caaccttcac ccattatgtg 240
caggcacaac gagagacata ttgtgacaac aacagaggat ttggctgcaa catatctcac 300
aatctcaagt actgcctcat gaacaatatg agcacatttt ttcacagaag cacaaaatgt 360
ctgcaaaaca aactccatga aagacctaac agtccttaaat gtcaccctgc cggtcacatc 420
aagaacaagc ctccatttgc ttggaaccgn caacgaagac gaaaccttgc tcacccaggg 480
acttttttt 489

<210> 31101
<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066f04d1

<400> 31101

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tcataaattt atcttagaca ccaaaataat acttaggaaa gggaatatgg cccaacttga 120
tcagggacaa tgcaagaaaa aaaataatat gtgaaattta aatgttctct cccaaattga 180
tcacttttac ttgctgctgc tagtttcctt gctagtttcc ttgacgatag tcacagggca 240
agaggcatgg gtcatcacaa agttgcttac acttccaat ataatccttt ggattgtgct 300
gaggccccctg ctccccataa ccagcgaatc cagcttcaaa tcttcaatag catccaaaag 360
tttctctctt gcatcccccc agtatatttt tgtaacaatg tggatctctt tttgtcttga 420
agcagtgtca agcaaatcaa gaacctcaat atcaatttga acatcatact ttttcataat 480
ctcaggctct 490

<210> 31102
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066f06d1

<400> 31102

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tcttcttatg ctgtgtaact cctggcaaca cttcagtatc aatgtcttcc tttttcattc 120

cttgtggcaa ttcccagtca aaggaataaa gaagattagc aagtataaga tccaatgcag 180
 caaatgccat attcatacca gggcacaatc tacgaccagc accgaatgga ataaactcaa 240
 aatcttgtcc ataaagatct atgtcgcaat ttaaaaacct ctcaggtata aactcttctg 300
 gatctttcca agccttagga tctctatgaa ttgcccgaagc attcacatat aataatgtct 360
 tggctggaat ttcgtagcca tctaacatgc atnttttatt tggttctctt ggtataagta 420
 gggggtgctg gtaagtgcaa tcaaagtgtc tcttttatca ct 462

<210> 31103
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f07d1

<400> 31103

gaaatgcacc tcttcatcta cttaccattc atgtttgagt ttgtacagca cgcattcac 60
 aaccgacgaa aaaaataaag gaaggggttaa caataaccca aattaccaa aaagaaaaaa 120
 agtaattaaa aaacaacaaa acggttctga tctcttgtaa taagtatcaa acacagaaag 180
 ccgatgatgg agtcaaaaact gagccgagcc acgagttcct caagccgaac attcaagccc 240
 cagctccatc ttgcacgagc cactctcagc cgagccacta aaatTTTTTca actcaatcct 300
 tcttttcttc accggaacca cgggcccgcgc acgtgaaacc ggttcgaacc caagcgtaag 360
 ctctaaacca acatcatcgc tcacacgctt cgggttc 397

<210> 31104
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f08d1

<400> 31104

agacaacttg tatatacagg gatacttgat agtttagtta tgcattgatcc acaatataga 60
 caacagaata tacagtatta cttgactgcc tgaaactgaa agtataaatc gatagagtaa 120
 gtccttgaac tggctctcca aagatTTTtg tcaacaaatc aatccacag agatacaaat 180
 caaatactaa attatTTTgt gttaccactt ctttagtcct ctatgtgaac aaatgtggga 240

acattttaga tattttgtggg actaatttga taacaaaaat cttaaaaaca ttaatgaggt 300
 gatgccataa tcttttgaag atcaattttg cagttttattc taaaacaaaa tcacaaaaca 360
 cactgcacag aaatacaggt atacaaccac aggcgctata gtttcaaaca tactcccata 420
 caaaccaaat acaagatcta ggtggagtag aggctactga t 461

<210> 31105
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f11d1

<400> 31105

gcacgcatac atagtgatatt attaaaatcc attcgatggt caaatggtaa tagtagaaca 60
 ataaaagggtc caaacgccct aacaatgggtc taacataaaa gggaaaaaac accaaagaaa 120
 aacaatcact gtctggaaaa ccggacttat tttcgcaagg acataataaa gacacttaag 180
 aaaactactc ttcttcatct tctcttttcc agcacttcag agttgatcta ggtgaaccac 240
 agtcacaagt cttggcaaatt ttttggtaga caagagaacc acccattcca agcccttcgt 300
 ggctcctctc ttcgcgacag tatcccttaa catccagaaa acacgtctga tcaaacaact 360
 tgcttgccacc atccacatga actgcaacag agaactcagt tgggagaaaa catgccaata 420
 cctctttaac catttcgttc agattcacca ctttgaagtc ataccca 467

<210> 31106
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f12d1

<400> 31106

ctgtaactct ttaatattaa cacgaaccat cattaaacag ttacaccttg acaagcatca 60
 cacagtttct tgtcctgtca tcaagggaat tcataataaa atagtcttcc tctccttgct 120
 cctcctaaat tccaaggga caaacacaga aaaacacatt ttatatagat agaaaatggg 180
 gaagatctct gtcaataggt ttaaggaaga ggccatgatg atataaagtt tttctccatt 240
 tgcactctcc aatatgttca ctttttgaga tgaggaaaac aagcataaac atcagattta 300

gggtgtttgg cttcagcatg ctccctacac ttcacttccg atgtggtgca cataaatgtt 360
 tgcattgcaca ccttgcaactg gatcgacatt gctttcttgt ttgaatccag ctggcttccc 420
 tttgaggcgg ccttctgctt ctcgatgttc ttctcggag ccattcttgc cttttgccc 480
 ttgcctcctc ccatgtctga tgccgcatga tgaaaccctc gtgaccctaa ttctcttttc 540
 tcaagctc 548

<210> 31107
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g01d1

<400> 31107

ggcaacacaa cacaatagct tattcattag ttctcatcca ttaatttcca ttgaagtccg 60
 aaaacagaaa ccaaaaatac aggatgatga aatctcataa agcaaaaaca aatgggaatg 120
 tagtttaagg accaaaaaac aaaggggggt ggctacagat gctttgcaaa tttttcaatg 180
 acttaaaagc ctgggggctt gtaggcgatg aagctgatgc actgcacttg gcgaacgttg 240
 tcaaatccaa tgatacggat gaagccattg gggatatgcag tcttagcctt ttgaagctcc 300
 ttcaacacct gagaagcatt agtgcagcca aacataggca gcttccacat ggtccagtag 360
 cgtccatcat agtatccagg tgacctgttg tgctcacggt acacgaaacc gtgctccaac 420
 tcgaattcca agc 433

<210> 31108
 <211> 366
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g03d1

<400> 31108

gaaacagaac aaaacaatta aattttcccg ccctgcctaa tgcattggcct attttatttt 60
 ttaccctac atttttgcac acccttttgt tttcaaaca atttaaaaaa aaaattccca 120
 tgtttaaaaa ccaacaaatt ttcttttttg ctttgcccc ccccttttaa aaaagaaaag 180
 aaaagaaagg gaaagttttt tctttttgtt gcaaacttgt tcaaacgggt ccattttttg 240

actttaaaat ccccttggg ctccgaggaa aggtttttgg gggatggaga ttttccaggg 300
 aaggcttttt ttggtttcac tagggacggg ttaacccttg aaaagaagtc atttgattgc 360
 ttttga 366

<210> 31109
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066g04d1
 <400> 31109

gttatccaaa ttgaaacaag aaattttatt gccatcgtag ctcaattaca tttagtctcc 60
 atcttgcac ttgtaatttt gctatatctg agactctttt gtctgcttca catttctata 120
 gcaaaacgta aatagaaac atctaacgac caattcgtac acaaggtaga cgtacaataa 180
 caacagtgga agaagaaatt ggtacctata aaaatacact ggatcggatc gagtagagta 240
 tacataccac aagtgtcaat aacatattct ttattacact cattttaaca cattttttat 300
 gattagttaa aatttattaa aaactataaa atcacataaa aaaaataacc atgaattttc 360
 cagatttaat tttcaataaa ttttagtgac gaaatatttc atatgtaact tttgaaaaat 420
 tcatcactaa agtttttgta actctagaat tagtgacgaa aaggcaatac atcactaaat 480
 tccgtcacta ataaacata 499

<210> 31110
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066g10d1
 <400> 31110

aaacaaaacg catttatttt aaatcattgg catttctgaa attccaaaaa aataaataaa 60
 acctacctaa tcatctgtat tatgataatg tttcctcagc agcattattt ttattattat 120
 atctacagat ggactgatag ccagatcatc ctagtattac aaaaatccag cagtgcacaa 180
 ttacaaaatc aacttccttg tccctgggtg agcatgaaga actgtaacaa acaagtcctt 240
 agaggaatct tagttcccca actctatagt ttgcctgtg aatacaagaa ggttccaagg 300

atagcaatgg cggcaccaag agcattgatg ggttgaactg gtgtgtggaa gataataatg 360
gaagacacaa tgacagatat acgtttcatg gtgtttccaa tgctaaacgt caaaggagag 420
atctgatcca gagacatgta tgacacttg 449

<210> 31111
<211> 446
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066g12d1

<400> 31111

catgtatagt ttgtaattca ttaattatct aaaaattcta caggattcaa tacgattgct 60
atgatatagt atcaaacacc taaataaaga aaaagaaaag acttaaaaga gtaaaaaaaaa 120
aaaaaaaaat atatatatat atatatatat atatatatat atatatatat atattataag 180
gctatataag agaagcagca acccatcaac ctcataatat aataagcaag aaatagcggc 240
attccacaaa atgtccctaa gccttggttag ctatattgtg ggagagccac tccagtcctt 300
catatagtc tttcccagag gtagcacatg tgctctggat ataccagggg cgttggcgaa 360
gagaatgaaa accaagcttg tctgtgattt ctgcagcatt catagcattt ggaagatctt 420
gtttgttggc aaataccagg agaaca 446

<210> 31112
<211> 405
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h01d1

<400> 31112

gggaaaagta aaaaaaaaaa gatttgggtc ggaaaagaca aattcctttg atccccccca 60
aacatttttg gtccctcggg gggttttttt tttttttttt taaaggctaa aaaggccaga 120
gtttaaaca tttcacactt cgggcattct gtttaagcaa ttttaaact ttttggaaact 180
taggggagtt ttttgcgact tattattatc cttataaact catttaagtt tttaaagccc 240
ttcccatttt ttttcccccc cattaccatt tttttacaag cccttagggg ggaactttcc 300
ccttggggtt tgagaacttg ggacaatttc tttggactga tttttccatc gcccttcaaa 360

ataaacccctt ggaaagcact tttggtctct cgttttttca ccctt

405

<210> 31113
<211> 286
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h03d1

<400> 31113

gggggaacag cgcacccttt ttttccaacg aagaaatcct tttttggata aatgtattgg 60
caaacacagg gcatatgaca attttggttaa taaaccctat aaggacacaa ggtgtacctt 120
ggccaggggc aaaagggccc ccacttggcc tcccatgaaa gctcagtgtg gggaaatttc 180
tgaaaacccc attgagggaa gccttttttt ggtctcttaa actccccgta agaggtttcc 240
tctgggcgaa gaagcttgta actgcagacc taattgccga attggg 286

<210> 31114
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h04d1

<400> 31114

atataaaaca cgaatcttta attcaaagca gaaaaggaag ggggggttcaa aactcagaga 60
accatggatg aaaaatggag ggaaaatgtc tgctatcaga atcaataaag cccgagtaca 120
tctgcaagta tataagaatc caaaaaactc catcccctac acagaagagg caacaaaaaa 180
agagcttaat gctcgtaaca gggtaacaac actgggtccg gaaaccgatt tattcact 240
tctcaatttt tgcacgagca agacactaaa tcgcagcttg accagcacat aatgttagaa 300
ccaccttaat taaaaagact tcttggaac gattacaagc aggtcaatga cacgtgaact 360
gtatccccac tcgttgatcat accaagagac aagcttcaca aaattcttat ttaatgcaat 420
tc 422

<210> 31115
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h05d1

<400> 31115

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 agaaacacac ctccaattca attataatat tagcttataa ccacctaaga tcacatgaat 120
 atacaataac aatacataag ctaaggactt gagggaagca caactgcaca aacagcaaat 180
 ttttctatat gctagggtcat aacttagcaa tcaaaagctt ttggaaagaa aaatgtttcc 240
 tttgtcaaac caccagaagg ctagcacaga aatcagtggg acaaacattg ctactgaaag 300
 aaatgtcaag tttctccaat ttgcaggctt atctgctgaa atagatgatg ttactcgagt 360
 tacggagctt gcaccttctt catccacctg cctgaaatgt cttattaaag tgatctattc 420
 cttcttcattc tgatgattta gcagagttat cattgctcga gtcattgggtg gaagcttgat 480
 cttcatttct ggtatt 496

<210> 31116

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066h06d1

<400> 31116

acaaataata aatacaatgt cgccattaat attaaacaat aactttgaca tcataaattc 60
 ttccaaaata attatacaaa agtgacaagg gaaaaccga tctgccagtt gcctactgaa 120
 taaaaacaca catcattact atgtgttggc atacacgcat gaccttgtgc cttgtcatga 180
 gtgaatattc caaagcaatt ggtcctttat gcctccttaa tccttatgcc acaaaatgct 240
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<210> 31117

<211> 280

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066h07d1

<400> 31117

acgcaaaaca actatatacg aaatacaatt atgctctgca atttcgtgtt tctatcatgg 60

caaaagcaga atataattac aaaattacaa acatacagga gagcaacata ttctgtaatc 120
 acagacaacc atcacaatcg caatcaaaac tcaagcagta tgtgataaac cctataatct 180
 ctctagaagt ggtgcaatat ttgttaccct ataatccctt cattctcttg tatactttct 240
 ctacaaagtt gtctcccttt acaacattag agtagcaaag 280

<210> 31118
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066h08d1

<400> 31118

ccctccaagt ttcttggtta aaaaaaagg ggggggtccc caattttttt gttccccccc 60
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 atgccccgc acacgaggga acttcagcgg ggttttttcg ctttcgcccc ccggacgaag 180
 taaccatctg gaagacctgg gacagactgt caccaacccc cgcccggtga atgtcccccc 240

<210> 31119
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066h11d1

<400> 31119

caattaaatt acattatatt acagcatggc aaatcaatta aaatatacag cttattttcc 60
 atagtgttaa atggtgtgtg aaaaattcca acgcgtaatt agtatctaga atttgttttt 120
 gattgatgat acattttcac aaacttttct actccttact tccagtgttt ttgtagtagt 180
 aatttttttag ccgggaaact gcacaaaatt gcaaaagatc actagaggca ctatgacatt 240
 taaaatgaca tgtccatggc atcatggtct ggggtcttgt gacaaaacc agattcctca 300
 cttggtcgtc ttttaaccac acttgctctt tgcactaacc gaaccaatgc ttgcaccacc 360
 tcagacatcg gaggtcgaaa ttccgggttcc ggctgaacac agagggcaat gatatcagca 420
 aagcgtgaca gtgactttgc aggat 445

<210> 31120
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a02d1

<400> 31120

gatataaaca aacaattgct tactaataaa ggggatatgt acatatagca tggatatctaa 60
 tccttggttac taccgctccc aaagggttag cctaagaatt ctttcatatt ctatctaaac 120
 aaacaaaagg ggactcgaac aacctattac agcttgacgt tgatatttta cactgctaca 180
 acagacaaat tatcacatta attagataac acgtggacca taattctcaa atatggcatt 240
 caagccaaag ggtgagttat ctctctggat ttcctatcca ttgctagaac caaagcaggg 300
 cttaaaaaat tgagtaaagt tacaagcaag caaactctga attttgaagg cacaacacaa 360
 tgaactattg ttacaacaat gcacccggga ctaactctag caacttgaag attgaacatt 420
 ggagatactt ttatatccaa tgaatgtcag atcttttctc aaaagaaaag aatcaagtaa 480
 gcccgtaga ataaaatcaa cccaatctgc aatgatttgc ataaatgtaa ttt 533

<210> 31121
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a04d1

<400> 31121

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 tcgtaaaciaa ggccagcgat tccaccaccg atgagaggcc cggcccagta gatccagtgg 120
 ttggtccagg tccagctcac gacagcaggc ccaaattgtca cagcgggggtt catggccgct 180
 ccagagaagg cccaccccaa caaatgtta gcgccgacaa tgaaaccaat ggcgatggga 240
 gcaataattc ccaaattacc cttcttgggg tcaatggcag ttgcgtagac cgtgtacacc 300
 agaccgaagg tcatcacgat ctccaacacc aaggcgttgc caactccaac tccagcggag 360
 agtccgaatg ctggaacagt ggaggcgggtg acgaaggcca ggaggaggga ggcgacgatg 420
 gagccgagga gctgggcgat gacgtagacg atgccgcgga ggaaggtgat gttg 474

<210> 31122
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a06d1

<400> 31122

aacagtgtat. aatgcccattg ggccatgatt tattttattga gaaagaacaa cctatcttta 60
 tgagtatgaa tatgataggc attgtgactg ccattataac agcactgaca cgcatacata 120
 acataattaa caccatgaac atgcccttct acccaactct aagctacttg catagtgtcta 180
 catatataat atccttattg aaattaaaaa aaaaacaacg gtaacatcgg aagaattaaaa 240
 aacataggct cttaatcctc ccatcccat gaacctgcag tgggtgtcggg tcattgaacc 300
 accccattta aaggaaaaga ccctacttat tttttgcata atatattaca gatgctcttc 360
 ctcatcata gacaagggga ggaaa 385

<210> 31123
 <211> 357
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a07d1

<400> 31123

caatcatctg ttagtagta ataataattg ttccgccggg cagaaaagta acaaaacaat 60
 ttacaaagac aggttgaaag agaggcaact taaccacacc taaaagaaaa gtttgcatac 120
 gttaagttcc acaaatttac agacaggctg gaatttgttt cagctatctt acaatattac 180
 agtaacccat ctactatctt ctgaatcctt agcgggacta cactgtatca gcaataagca 240
 tgtccttata tatagttgag atgcttgcta actgttccac atagtttggg acaaatatga 300
 gactaatgac cacctcttgc gtttggtgactg tcaagaagta accgattgac acacggt 357

<210> 31124
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a08d1

<400> 31124

aacaaatgat tttgtaaaat tgcatttaat tgacgcacct acataattca tgttacaaag 60
 acacagctcc actacaatat acaacggcca agagggcaaa tcatgaggtg aaataattgc 120
 aagtgtgata accggacagc aactaatcct cgcagctct gcaacgtcac agttccatag 180
 tttgcaggcg ataataagctt cgattgatta ttatacatat ttctcatcta taccaccccg 240
 tattgaaaat tatgaccacg acatgcttgt atgccactgc atcaatggga ataatgtctc 300
 tgactatagt aaggaatittt tttctcttta cctttacaga ggttcaagag atccactttt 360
 caatctttcc atccgtgctt gaagcccaga caatgctttc tcatccatag gaagtacccc 420
 accgtgcatt gtattctcag taccacatg ctctgatgca tg 462

<210> 31125
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067a09d1
 <400> 31125

cccccaaaaa atatggtttt caatccaaaa tggcagagag accaggtaat taaaaaatat 60
 acttttgcta gctaaaagat acattccgtc cagggagaac cagaaacaac tgtttaggct 120
 atgccgtcaa aaaattaatt tgttctctca ctaactcatt taaccattca ttcaaaaaag 180
 tccaactttg taaaaactga ccccatcag aatatcatga tctaccctcc aaagtgtctg 240
 attgcaaattg ctctaattgg ccaatgatta acgcttcttc ttgcttcctt ttgcgctgga 300
 ttttgatggg gaagctccca agtatgtgaa caggaccttg atggagatca ccgagattag 360
 agatccatac ttagccagca gcctgttagc ccattcaaac ttcttcttgg gaggtttatc 420
 agaaagaaca t 431

<210> 31126
 <211> 605
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400067b02d1
 <400> 31126

gttaacatag cctttattaa cgtcactttc ttacaattta cataacaatt gagtggatac 60
 tatcccgtag acaagcagat accttataga aagaaatata ctggtcactt ttcacgatt 120
 gagaatagat gaaaaaaatt aagtggcgtc tatctctccc atccttgata atatatgggtt 180
 tectccgcta tacgtggcac gtgctgtcca aatacaatgt aacaacaagt attgtctcct 240
 tcataattca catgttggtc atttattcca aaattaaaat cataattaag tagggaccaa 300
 acagaaagaa aagaaaagaa aagctatata tctagctaata ttgaaagtaa gtttaagcat 360
 caacaatttc ctcagtgtct gcagaagcga aaataagctg ggggttcttcc cttgcaactg 420
 cacacgttcc atcaattgca ttgttctgc ccaacgctg taacgccaaa tgagccgcct 480
 tctgcctga tatcatcatc gccccaaacg tgtgacccat ccttggggag ccatcaattt 540
 ctgccacctc catgccggtg acaatcatgn ccggcacaat ctccctcgtg agcctcacia 600
 tagca 605

<210> 31127
 <211> 488
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400067b04d1
 <400> 31127

atataatatc cttattgaaa ttaaaaaaaaa caacagtaac atcggaagat taaaaaacat 60
 agcctcttaa tcttcccatc cccatgaacc tgcagtggtc tcgggttcatt gaaccagccc 120
 atttaaagga aaagacctta attatTTTTT gcataatata ttacagattt tcttctcga 180
 tcatagacaa ggggaggaaa attcaagggt cctgatcatg gtgcttggtg gcaacattgc 240
 actgctttct gacctaccc tttgtgccag tgagagggtt gttctctgag agcaaggtaa 300
 tggctctaga gaactccttg aagaaatagt cttggctctt ggccattttc ttcacataag 360
 gcttggctct cttgtcattg gctagttggt gatccactat caagagaccc ttgctgtcta 420
 atatgtttct gtagtagttg gtgtctagaa tcatgggagt gccacggctg tttctcacgt 480
 actgcacc 488

<210> 31128
 <211> 311
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067b06d1

<400> 31128

ggcaaacaaa ttgcaatata atgatgtcaa taaataccaa tggtacatga tacaggaagg 60
 tgtaccatta tcttgaggta ctgatatctc aattagcaaa aactaactgt aaacatttga 120
 aagcagattt gagacgtcac atatcacttg actaaaccca gctgggctta tgactcaatt 180
 tttcaaacag aacatccatg aagcattact gtttactttc atatatggca aggctccaat 240
 taccttggtta taatcagtcc tgctgaccgc gtgcattatg gagagtcggg atttgcgctt 300
 ggtattcttc t 311

<210> 31129

<211> 390

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067b07d1

<400> 31129

ccaactcata atttatgggt gtataagggt atgctttgta tgtttccact ggtccatccc 60
 acaagacatc tatctgggta aaaagaaaag aactacattc tatctactca tactactggc 120
 cgagaaagaa catactttac catcagggga aggagagctc aaatcgcaaa ttcttgtgat 180
 ttgccagcca aaacacagta tgaagcatcg actgcacccc ctctttctat tagaagatcc 240
 acaaaaaagg ggagaaagaa tatcagggac ggaagaagggt gtatacattg acaaaaaaaa 300
 aagaacggcc gaccatggat agtatacatt ccacatgagg tatgcccacc ccaaactttt 360
 tggaacaggc actagaagag cttattttac 390

<210> 31130

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067b10d1

<400> 31130

gaaaattcat ttgcaaaaat tttatcttgg ttcaaccaag gtggctatga atgtttacag 60

agagagaact tagatgaagt tgcataccct tacaattctc ccaatcctca tacgtgaata 120
 caagagcaac gcatttccttt ccttcccaga agattaagtt gggaaggcaa ggacattgcc 180
 aaaatagata tctttatata tatcacacca ccatttgctt caacttttaa tagtgagtgg 240
 ggaaaggaag gcctagctta tagtgaacca ccataaatat tccaagcatg ttcttgattt 300
 atccactctt taggctaggc tgcgcaaaaa tgactccttg agctgattaa tatgaaggta 360
 aagccctatg tgtttcatca caatgcaagg gtaaaaatac acaaggtttt atctcctcct 420
 ttttctgcct tttcctaatt ggctgattt aaaggcatgt tcttgctctt gaaggaaagc 480
 tttaactctt ccatac 496

<210> 31131
 <211> 344
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067b11d1
 <400> 31131

aaaattaaag ggtttaactt tactaccaa aaaagggtcaa tacataaaaa ccccaaagt 60
 ccccttatg aaaaccactc aggggggtttt tcattaagaa aaccaaaggg ggtaacaaaa 120
 ttttgaaaca aactggggcg gttgggggtt agccaaaaaa aaatattttc catcatcaaa 180
 agaaaattgg gcctgaacat taatgggtgt ataccaagg tattgagggg ggcccgtttt 240
 tcctgaaaca cacgggtatg agaaaccctt tggaaggaaac cggccccctt cgggggtttg 300
 gaagggttta aacaaggggg gtttttgggg gggcctaatt ccct 344

<210> 31132
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067c01d1
 <400> 31132

gggtcaaacc cgataatgtg aatctatttg atttaagcca ggggaaacc ggagaaggcc 60
 ctacgggtat ggacccttc gggggccaca tttttaaaaa tttcctttta aatcccatgg 120
 taatctggga ccccccccta ggcatgcggg ttgtcttcag ggctccaaat aagcagggcc 180

tatttactta gtgtccgcag aagccaaaat cagctgggggt tctgcccttc caactcccaa 240
cggtcaccaa ttgcattggt gcctcccata gccttaaacg ccagatgggc cgcct 295

<210> 31133
<211> 586
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067c02d1

<400> 31133

gagccaattc cctgcctctg ggagtgtctt cttcagaatt gagacaatgt cacttgtatt 60
gcatacacgt atagccatat gccaaataca caaggaggct gattagtgtc actagttata 120
atacaaaaac ctaatataag tgcaaagtcg gtgtggaatt caacttttat gattgggtgag 180
aaatgaatta aataaaaggt acatgagaag cacagaaact gagaatcgtg ttcagaagat 240
ttgcccatta caattatatg cagcaaatat acagcaggac ttaccgggtca tgttgtacct 300
caaaacatag agggaagacc taagattctg ttgttttagca tacacgcaca aaggatttca 360
aaggtgtaac actgccacag atttgggtcaa gcacgaagaa acgtgcagct catgagtaac 420
atgatccctt gaaatatggt tccagtttgc catatcagac acatcacaaa cggtgaaaaa 480
accaatacc cggccaatta ttgtgaacat gtgcacccca aaaatcaggc ttttgtctga 540
cacaaaaaca gcgttccagt ccattggggc atccggatgc actgag 586

<210> 31134
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067c04d1

<400> 31134

acggaaacat gagatccaat ataccagatg gacaaaaata aaaataaaaa gcaagccaat 60
ataagaacaa accgataggt gccgcataac atgtacccaa aggtcccaaa ctccactctc 120
actaccatca aagtattatc ccgcaaaccg tacatacact attagtaatt acaatcttct 180
tcacgttggg gtgcagagca aacacactta cgcacacat agcataagta agacacaggc 240
atcttcacat tttagtctct tcacatatgg tcgtctgctt caccatctct ttctctctga 300

tgctcgtact ccccttcgtc ctcagcagtg gcgtcctggt actgctggta ctcagacaca 360
 aggtcattca tgttgccttc tgctccgtg aactccatct tgtgcatgcc ttcaccagtg 420
 taccaatgca agaaagcctt gcttctaaac at 452

<210> 31135
 <211> 195
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067c08d1

<400> 31135

atgaaaaaaaa aaaagctatt ttttttttta agaaaaaaaa tttcttctca caaccccggtg 60
 ggcttggggg ggtaaaaaaaaa cccgtgtggt attgtaaaaa aaaaaccccc tgggaaaaaaaa 120
 aaaattttta tcaaaagaat gtgggaaccc cactgtttg ggggccaaat tgaacaaaca 180
 taagaacggg atcta 195

<210> 31136
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067c10d1

<400> 31136

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 atacaatacg caacactttt tagaaagcct tataactata aactataaaa gctttgcccc 120
 gatgaaatta cactgcaggc aaatttttca ttcacctta gcttagttat cttcattggc 180
 gcccaaatta ttctttggca catctttgta ttagccctgg atggcaacac caaggggagc 240
 agcatccata ggtattatct tctcaatttc tacacccttg ttgttctggt tttcataggc 300
 tgaaatgtgc actccaagtg ctgctctacc agagggatca aggttggttag accaagcagc 360
 atcccactca acagctttgg ctgtgctaca tgcaaacactt gctcctccag gaacagttag 420
 cctagct 427

<210> 31137
 <211> 477
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067c11d1

<400> 31137

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 ggtttcatct gctatagggtg agtccaaatt caaagaagta acaacaggta ttgtctcctt 120
 catcattcac atttttaaaa atttattcta aaattcaaat cataagcaga gacaaaacag 180
 aaaagaaaag gtatataatt tgaaacttaa tttaagcatc aacaatttcc tcagtgtccg 240
 cagaagccaa aataagctgg ggttcttccc ttccaactcc acacgttcca tcaattgcat 300
 tgttcctacc caaagccttc aacgccaaat gagccgcctt ctgccctgat atcatcatcg 360
 ccccaaactg cggacccatt ctgggggagc catcaatttc tgcaacctcc atgccagtga 420
 caatcatgcc aggcacaatc tccctagtga gcctgacaat agcgtcctca gcagcat 477

<210> 31138

<211> 511

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067d01d1

<400> 31138

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 gatcagaata tcttctagca cagaagttaa aatttaacat gacattttac ctgtttcagc 120
 aattcttaaa gactacatag ataaagtga acatacaaca gcttaagggt taagacttaa 180
 gactaaatat taaacaaagg gatatgtagc ttcttagtca tcagttcacc atcatctgtg 240
 ctaactagtg gagatatgta gcttggtact gatagccatt tccaaagtag ttgccaggat 300
 taggagagat gttataagtt gcacaacca tgagaggagg gcagtgattg tcagttggtg 360
 cagggtacat gtaaggctcg tcatacacgt attgaggata cctgtcagca actctagcat 420
 aagaagtttt gtcagataga atgttagtga cacgcggggc atatcccaca ccattagcac 480
 ggggtctctt gggttgaggc tttgttgctt c 511

<210> 31139

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400067d03d1

<400> 31139

aagagaaact aaaatatata tacattgagg tctctaaaaa cccatttccc aggtcagcaa 60
 tacattgaat catgttgaaa agaaagcctt ggtgacttcc ctgatgatcc agtcgcaagg 120
 ccacatattt atctacataa ttgggtcgct gcaaaagact aagagtctct ataacaatct 180
 caaagcacta acctactact atatcagaaa gtgacagagc accgataaat attaacataa 240
 tactaaggga agtggatatt acatacacta tctttgttag catagacaat ctcatattatc 300
 aaaatatcat ttcttctgat ttgcacacag tcttaagcct ctgtgcagct tggacgaata 360
 ccacaatgac ctgcaatact gccatgtgct gcgacatgaa atgcctacga acaacatcta 420
 ctanctgctc ttttgatggg ttcgggaccg catccactag attaaaatgt cgccaatatc 480
 tccacaatg 489

<210> 31140

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067d04d1

<400> 31140

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 agggaagata cacaaagggg aagaaaaatg atgtattcta caacagaaca aattgaaatt 120
 aaaaaaatta aagctccgca gcacttatcc tggatcagca gactagtctg acgaataacg 180
 tgaggaaagg tggggatatcc gagtatcact tgaaagtgga gaatctcgga agcttgtctc 240
 tcagatagta caatcttgcc ctctgacct tacggtgact taccactttg atttctttga 300
 tgtttggtga gtaaactggg aagactatct caaccccagt gccggcaatg attcttcgga 360
 ttcgaatagt cgtgtgaata ccagcatttt gttttgagat gacaatccct ttataaatgg 420
 acaacctacg cttgtttctca ggaacctcca atttgatttc gacaatatcc ccagtcctaa 480
 tgtctggagt tgggtctttgc ttctcgatg ccttaattgc cctctgattc aatatcccca 540
 taatgtctcc gaagttgact tcgggttttt t 571

<210> 31141
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067d07d1

<400> 31141

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 ttatitttcaa gggacattat tacagaccca ttaaacaatca aagttcttca aatgttttgg 120
 gaacacatcc aacattacac aacgagctta aaacccccca cggagacgga ggacaagggtg 180
 aagggttgat tccttctgga tgttgtagtc agcgagggtc cttccatcct cgagctgctt 240
 gccagcaaaa atcagcctct gctgggtccg tgggatgcct tccttgtcct gaatcttggc 300
 cttcacattg tcaatggtgt cagagctctc cacctcgagg gtaatagtct taccgtaag 360
 agtcttcacg aaaatctgca taccaccacg aagacgcaac accaagtgga gagttgactc 420
 cttctggatg ttgtagtcag c 441

<210> 31142
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067d10d1

<400> 31142

gatcatccat tataaacttc tccagggttt ccaccatgag aatagcgtgg acacttgtac 60
 aaaagctaga attggcatgt aatgttgatt cttcctgtca tcacttggtt acctaacttc 120
 atccaatttt aacaaccaca agacttacag aaaaatgtta gtaaaacgtg ttctttattt 180
 tagaacaatc atatattgtg caccagctga cctatatggg tgtgccttgc caaaaagaaa 240
 ggaaaaaatt cctaagcata cactaccagc caacataaaa agcagatccc aagatagaat 300
 ctgctatctg catcatttta gtaaaggagc cggatcttgg tacatctagg gatctaaact 360
 cttttgccac ttaacaggat gcagctttgt attaaccctc tttttcacta cccc 414

<210> 31143
 <211> 497

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e01d1

<400> 31143

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 tgaaaccaat ttccctcagc ttgttaacat ccacgacgtt ggggccatcg aaaatgaatg 120
 caggcttctg catgctgtca taaaccttct ggtaatcaag gttcttgaac tcatcccact 180
 cagtcataac gcagatgcc a tgtgcatcct tgattgctc ataggcatcc caaaccacag 240
 atacttgttt gttggaagtt ggactcagtg gttgaagatg agcagggtgg tcccaatcaa 300
 acttcttcat tgctaaatcc ctcatgattt gatcctcagt gacctgagga tcatatatgc 360
 tcaacttggc cttgtctccc aaaaggccct tgcaacatc aatggctggg gtctccctag 420
 tgtcaccagt gtccttcttg aaagcaaata ccaaacagc aatgttcaac acaagtctca 480
 gggaagaaga ttgatga 497

<210> 31144
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e02d1

<400> 31144

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 acaccatggc gataaacctt atcactccca ggaaaggaag acacatattt ctttttctc 180
 catttctgca ctttgtgtcg aacttgagtg acacaattta gtagaaagtg gtatggttga 240
 acctaatcct tgtacttcat ttcagatacc aggaagccag gcatgtcaaa caaggcagag 300
 aacttctcaa catcagcttt gagatcttca atagccttgt tgttgacgag acccttggtg 360
 aaatccttga gaagtttgcc atgctccttc tggatctcca gtgtgagagt cacagcacgg 420
 tgaaggaact caccaatctg ctcaaagtct ttttcaacca aaccctaga agtcatggca 480
 ggggcaccaa ttcgcactcc accagggggc aaggcactgc tatcaccaa aacagcgctc 540
 ttgttaacag taatgttaca gagatcacag ag 572

<210> 31145
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e03d1

<400> 31145

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 aattaaatct ccaataaatt catgcacaca cagattcata tatacataca taatcaatta 120
 ctcatcaatt ttctcatgac catatgtgca gggagtgata gatatacgaa gacactgcat 180
 aggtctctac acatttatcg catgtatggc ctgtgcgtct ctctccacac gtcctgtgat 240
 gttaaact actagaacgat gatcaaaatc cataggggat tatttttcat gacatatcat 300
 gattgaatga catagactaa cacacttgcg cagaggatgc cactggtata aagagtgata 360
 accgaattgt gctctgcaaa tcag 384

<210> 31146
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e04d1

<400> 31146

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 actacccaaa cataaaattg gctgctcttt ctagcaaaac atagattcct ctttttcgag 120
 ccatcaaact ctcatagat caaacaatac aaaatacaac acgacgtaaa aattaaataa 180
 atatcaagcc acgataatac ctcaataaaa aaagcccagt atgaaaagga catgctgtgg 240
 ggaagcaaag agaaatgtga tgcacatcaa agccccaga agataacaat gcaactgtga 300
 atctgcgctg gccagtgtgt caacgatagt acataagctg ctgtctcgat gaattaccgg 360
 tatatccatc atacatggct tgagatgcc cagagtttac gcccatcgaa gctggagcta 420
 ggccatgttg gccagtcatt tgcaaaagag tttgacctga a 461

<210> 31147
 <211> 408

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e05d1

<400> 31147

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gaaaaaaaaa aaaaaaaaaa aaggctggca aaaaaccacc atggggaaca aaccagtgga   120
gggccatttt ttttttggct tattataaac tcaccctttt ttaccacatg atctaaagtt   180
taaacagaaa aacttgagag tagaaggag agacatgctt tatatgctat aaaaaaaatt   240
cagtagggcc aaaaccaaag gggttgatct tcctccggaa ttccaaaatg gcatgaacca   300
tggggggggg gggaggaata aacattttca agcttgggaa aaatgtaatg aggcaaaagg   360
gtcttgctca agttattttt ttcacacctga gacacataaa atcgatca               408
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<210> 31148
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e06d1

<400> 31148

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acaaaacctc ccctcaaata tcccaagaat gcaagcaatg tacgtatata attcaaatac   120
agtaattaat aaactcccat gatcacatcc acaaaataat aatatataaa ggtaaggtaa   180
atagaaaaat aacatgaatt ggcagaaaaa tctgcaagtc cgaagacaga gatcgatgat   240
gtctagaaca acaaggacag caaagcacat ccgaatacta agctcccaat catcttctga   300
aaggaccaca acttttcagc ccactatca tcgccagagg gagagatggg ggagaggctg   360
gggccgggag ccaaggaagg agagagtgcg ggagcaacca ccttggcagg agctggagct   420
ggagaagtgg ctggtggaga ggaaaggggt gattgggtca atgcgggtgg a           471
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<210> 31149
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e07d1

<400> 31149

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 aaaagggggg ggggccccct tgggttttaa aaaaaaaaaac ccccccttt ttttcccccc 180
 aaattttgaa aacccccccc cgggggtaaa ttttaaaata caaaatttt ttttttttcc 240
 cccggggggg gggaaaacc ccccaaaagg ttgttttaaaa aaaagtggac cccgtcccc 300
 ggtggggggg ggtcccaaaa aaaacaaaaa aaaaaggggg gggggccaaa cccgaaaaaa 360
 taatcccccg ccccccccc caaaaaaaaa aatttttttg gggggggggc cccccctg 420
 ggggggtggg aaagaaaaaa accccggggg cccccccct tctttaaaaa aaaagggggg 480
 ttccctgtgt ataaagggcc ccccccggg g 511

<210> 31150

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067e08d1

<400> 31150

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 ttttaaccaac ccttgagtta atttggtttt aaaaaaaaaa aaaaaaagtt ttttgaaaat 180
 tccctttttt gaaattcaaa aaaatttttc ccaatgattt ttatgatcat ccccagggg 240
 ctatccccct gtatcttggc cttgttctgc caacctcagg ggaaaggccc tgtcccatgg 300
 ccctcccttt gttattgggg ggggcttgtt gaaaaattgg tcgctgttgc ccaatagggg 360
 gtgggggatg ggactctgat tctgaccttg gct 393

<210> 31151

<211> 363

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067e10d1

<400> 31151

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 ttgatacaat aataaagagt aagaaaagaa aaaaataaag gggattgcca caatcatatg 120
 atcatggggg gaagtctaaa atgaccttgg ctttgccaca atgggggaat gcttgagtat 180
 gtgcaagcta aactgccttc ctttctcact ggtgtcaatc tgggactggc cagggggagg 240
 caagagctca aagttttgga ccaaactgcc caaagtgatg gcaagaatag gcaatgcaag 300
 aatgattccg gggcaactcc ttctgccaac cccaaaggga aggcacctaa agtcattgcc 360
 att 363

<210> 31152
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067e11d1
 <400> 31152

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 ttgagattta atttaagaaa aaattacaga acatgatata ccatgctatt gccgcttcct 120
 cctatcaaaa atatacaaca ccagttgggt caatttctat ttgtttcttg tccaaataag 180
 accgcagcag cggcggcaac agcagacaaa ctccaaaaga aagaattatg ttgatgaaaa 240
 ccgtccactt aaacagtga actcttctct tcttaaagac acatctacag taacagcata 300
 aagcagtagc tacaacaaaa gagatatatg aagttacaaa aaataatctg gcgtctttcg 360
 tgtagtgctg ggctcaattt gtctgggagc tggatcaaac tgcagaaaat tctgatccat 420
 gttctctcca atttccagaa tggcagacat gttccca 457

<210> 31153
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067e12d1
 <400> 31153

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 ctcataacag actccattca ctctatgaac gaaccacatg atactgatat tttagaaagg 120

aaaggaagga ttcaaagggg aagggtttcg aaatgatatc cataacaccg caatccccta 180
aacgacatgg gaaagagaaa aaaaaggcaa aaacgacacc gaaagaaacg acacattcag 240
agccaccgac acagagataa aagcctaggg tcaacgtcgt ctatctaaga gagttgacca 300
cagtcggcga cgacgacagg cttggcggtc ctgccggagc tggatccgac cttctctatc 360
tccttgacga cgtccatccc ctcgacgacc tgtgcaaca cgacgtgctt tccgtcgagc 420
cactccgtct tcgtcgtgca gatgaagaac tgagatccgt tggttccggg accggcgctc 480
gccatggaga ggatgccg 498

<210> 31154
<211> 404
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400067f01d1
<400> 31154

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tgaaccttct taggaattcc cgccccctca aatttcaatg ctaaaagggg gaataaataa 120
ttgaataaac cgccaataa ttttatttgt aatggcaaac tttggccgaa acaccctga 180
acggggaacc gtttcttttc cttgacctac aggggctaca caaactggaa caatttaaca 240
accggttttt ttttttttgg gacaattaac cccatgcggg tattttcctg cccaatttt 300
ggatttctac cccttgaag ccctaaaagg cttcgggggg gaaaccccc aaaaaggggg 360
tgttctgttg ggcccgattc aaaagccttc gcaaagcata tttt 404

<210> 31155
<211> 542
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400067f07d1
<400> 31155

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aaattggatt aaagaatgca aaacaatgtt agaagaagcc tataaaacc aatttgagct 120
ttctatatcc tttcaagttt ccttctaacc cattctgata ttctcctgat cttgctcacc 180

agctgagcat tttttgtaat ttttaaagtat tcttcagcat ttgataacat taccattata 240
 tcatgcttga caccttccac actccgatag tagtcattct tcaatcttga ttgaattagt 300
 tcaggataga atggggcagg aaacctgttt gcaaactcta acctctcagc tacttggttc 360
 aatgcttga tatcaaacct cctgtggtct aatttgatga aataggaaag cagcttatct 420
 ctgatctcat gatcaatgtg gggatgctcc cacagcatct caggatcata tagttcccac 480
 ggactatgca gaagaatctc gcttgatca atcttggact ggaccccata ccttttccag 540
 gg 542

<210> 31156
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067f09d1
 <400> 31156

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 cacacatgag ttgggcctct tccaacttaa aagcagagga taacattggc ccatgacgcg 120
 acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180
 aaattttaaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240
 acaaacattg gcttgatttt tgttggtgtt gctgttccca acttgattaa gcatgaaccg 300
 cttgattgaa tcacttggaac ttgaagggaa tggccctgat tacgacctgg tggtagagtg 360
 ctgcaagagc tgcaccgatg aatgggtccca ccc 393

<210> 31157
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067f10d1
 <400> 31157

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 cccttacgag aggaaaaacc tataaggccg tctaccaact caacatattg cactgttttt 120
 caatgatatc tctcacagca acacaaaagtg tttattccga attcacacta aaataaaactc 180

gattaagata aaaatttggg acggggtagc gatgatatcc aagctcagac tcaattcttt 240
 aagccacgga tgcaatgtgg acaatcaa atcaacacg ggaactgtga cccatttcgt 300
 tgtcatacca ggaaacaagt ttacaaaagg tgtgattcaa agaaattccg gccttggcgt 360
 caaatatgct agacctgtta tcaccaacaa aatcagtaga cacaacatca tc 412

<210> 31158
 <211> 362
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067f12d1

<400> 31158

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 atatggaaaa taaaccccc aagaagtgc tgaagaaacc ataaaccatt aaattagaat 180
 gggctatttg gatacaatgg tttttgacag ccctgaagta ccgtgttttc ttttctttcc 240
 gtttgatagt gtaagggtta gtcaagggtc actttgcttt tcattttttg gggttaattct 300
 gggctaaatt tgggtgtttt tgcgacctg ctccatgggc ccggtagaag ttttgtttgt 360
 tt 362

<210> 31159
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067g01d1

<400> 31159

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 tgaatacaac cgagataaat taaaattcca tgccaccatg gccacaagt ttatatacgt 180
 acttttaaca ttataaatc catctttcac attatcgatt aaaacaatga caccattatg 240
 gtgaccgata atgcaacaat gaacataaaa gaggtgaagc attgtgaggc cgaagatgca 300
 ttagtatttg taggagaaga agatgatggg ggtgatgata atgatgttga tgacaataat 360

ggtgacagtg atggtgacag tgacggagat gttgccggtg acaatgcggg ggaaggagca 420
ttcccttttc gtatgggaat cttcaccttc attccttgac ta 462

<210> 31160
<211> 525
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067g02d1

<400> 31160

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ggtttccact gtcctatccc acaagacatc tatctgggta aaaagaaaag aactacattt 120
tatcttttta tcttagtggc agatattgaa catccttttag tatttgttgt aggagagcta 180
caatcacatt ttctttcttca tttgcaagcc aaaacacaa atgaagcatt gactgcacct 240
tctcttttta taagaagata cagaaaaaag gggagaaaga atattagggg tggaagaagg 300
tgaaaaaatt gaacaaaaaa aaagagatgc tgcccatcat catccagaaa caaaataagg 360
tctgccacc ccaggaattt tgaaacagcc acttctggat ctttttttct aaaagctcct 420
gctaaagatt ttgaagggca cttgtagtgt gagttaaag tagcatccaa ctcatgggtt 480
ggtaagaagg ggaaagaagc cttctccaca gcaaccccaa aaaca 525

<210> 31161
<211> 227
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067g05d1

<400> 31161

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attgctcttt acttaggaca acacaaggaa gacaggggtcc ccagttttt tactccacat 180
taagggttat aatcttttca agaatgacca tatgagggga gggaaaa 227

<210> 31162
<211> 462

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g07d1
 <400> 31162

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 ttggcctttt ctgagatact ggtggatcat agccatacaa tgcctgcctg ttgaacacag 180
 ttccagtacc aacatatact ggaccttgaa tcccatcaag ccctttcata ttgatataaa 240
 agaacactgt gtttcggtta gcatatctat cgtggcgatc aataccatca aatctttgtg 300
 gaaattggac ataacacagc ttcttcoccta ggttgggggtg cattaaaaag cacatggcct 360
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 catttgaag cacagcagaa actcgaacca aaagcattca tg 462

<210> 31163
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g08d1
 <400> 31163

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 tgccttaaaa atcccattga aaaagcctaa aggaaaataa gtttttaaaa ccgggttttg 180
 ggggaaagca accccttttg ggcccttcc tcaatttggg ggcccgcccc cttcccccc 240
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<210> 31164
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g09d1
 <400> 31164

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 tggtttattg gtcttaaaac taataccaaa agggaaggaa aaaaacaaat attaggggaat 180
 cattcttaga tattgaaagg attctactaa agttcagcac aagaaatcac aaatatagta 240
 acggcaggaa cctgcaacaa catgcctccc tttaggctac taciaacgca ggggatgaac 300
 ctgtaaagtg atgaattgat ccaaataagc cctttgcagc accaaagtga cttaatctgt 360
 acacaccaag agtcacaccc tgtggtatta tccattccaa gggtccttta ctctt 415

<210> 31165
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g10d1
 <400> 31165

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 agtggagccc tcatcaccct cgatcttatt cttaatatta ataatgctac tcatatacta 180
 gtgagtagtt tccggtttcc tgcgtccatg actttctctt caaaccttga tggtagcgca 240
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 ggcgttggtg gctttgaagc cggagatttg gctggcgcc gacttgaggc agttgcacgc 360
 cgtctggcgg tcggcgggtgg tcttggc 387

<210> 31166
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g11d1
 <400> 31166

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tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
 aacatagaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctcagcaaaa 300
 gcctctgggt catcagcaag gcccaatggg tcgaagctgc cacctgggta gattgggtca 360
 gtgacctcac cgagggggcc accagcaata cggtaacctt caacggcacc cattaggata 420
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<210> 31167
 <211> 332
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067g12d1

<400> 31167
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 aattttattg ctttggcata atcatgttta tctgtttaaa caatatgggc tgaataccat 180
 ccccaaaggg caacaagcat cagccctaatt tttaagaaac atctgactat tacaattaag 240
 tatatactat aaaaaatatg agcatgatga ctacgaactc ccattccatg ggacactagt 300
 tctatagaca gatgcacgag accaaattac at 332

<210> 31168
 <211> 597
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400067h02d1

<400> 31168
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 tatcgagagc agactcacia gcaagttcag ggtgaaactt agtttagcta cagtacatac 180
 atgatacaaa atgagctttc tataaacata ctagaattat gactgcagct cttttcaaca 240

ggactagcag aattatgctt atttgcaaac ccgttagttc aataagcata tcaataactt 300
 ttttttttct atacgtctag taaaaaattg tcacggacta agatggatga tttcatttca 360
 catggaaata gtacagccta actctttggc agcggtatca agaaagttaa tagacaatcc 420
 gtttgaaagt cggctgtgag cttcccaagt caagcatttt tctatgtcag cttgccagtc 480
 aatgacatcc aaattgaagt attgataaga ggggttggtg gtgccattta atctcgaggt 540
 ttatgactac atctgattga accagtatgc anaatgtcac gaagaactga tatactc 597

<210> 31169
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h03d1
 <400> 31169

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 cttacattaa cagttatgct gggtcaggtc agattacaac ggataaaatt tggctaggta 180
 ttctacttg aaaactaagg gatgtttggt tttccattca gaagattcaa acgttattca 240
 gttcaatgaa actacacca cggattgggt ttaagtttga acatcctttg gaacacgaac 300
 taaaaaccaa acacaaacta atcccaaat caggttatga aggagaagtg gcttgggttc 360
 taattctact tgaacgcta acaggagtga tgatctctg ctcccatgt ccctgcttga 420
 ttggaatttt ctcatcacaca gttaagcttc cataggatgg ggaaccatg gaatagtctg 480
 atg 483

<210> 31170
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h04d1
 <400> 31170

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 gcgattccag atgctgcgta tgaagaccag gattatggcg cgaaactcta aagattggga 120

gcaagagcgt gaggagatga ggattcgatt ggagctggct gaagctctgg cgaagaaaca 180
 cgaggaacaa atcgagaga ttgtcgcgca atttggccaa aatcgagatc gtgatcgca 240
 gggaggtcca attcttgaag gaatcagcaa cagtgggtgg catcttgagg atatgaatcg 300
 aagggagaag tagcgcaagc tggagattcg atttttgctg gagaagatgc gtttggctct 360
 tagctccgat tggagagata ttttctattg aaagatgtca ctgaagatga aaagatgc 418

<210> 31171
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067h06d1

<400> 31171
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 gacatcaaac agaaaatccc ctgaaaacaa ggtctcttga gtttcacaca aaggataccc 120
 tataaaaacc tatatatagt cctatactgc attagctaca agataaataa actccacata 180
 tgctttaagc aggttggctt tcttgctggg gattccatca ccaacatcac catcaccatt 240
 cttgttgctt tatttacata aaaagggata tgaagggtgtt cagaacactc ctgccatgga 300
 aggcaggtcg tccaagctgc aaaggttcat agggatctca gcagcatact gagatgcatg 360
 ttcactgagc aaagacgcca atgcagcatc agcccaggct tgatcaagaa aagaaggggt 420
 ctgaaagaac tgtaagtggg attcaatgtc tgcaagctcc tcacaaaga 469

<210> 31172
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067h07d1

<400> 31172
 cttagatctc tttctcttct ttgcctgtc atcactagaa gaactcatgt aagatgatga 60
 ggacatatct gactcggaat cactatcagt ttccaaagat tctgtatcag aatctgaaga 120
 gctcccggat tcagatgagt agtattttct ctttttctt ctgccttttg aagatttttt 180
 attctttccc atttttgatg tatttacctt ctttccatcc tcgctatatt caccacaatt 240

aatgatttta acagttacag ttggatgcc ttcttcatca ccgaattctt caattttctt 300
 caatacatta tgcccttgca caagctttcc aaagactaca tgtttcttat caagatgatg 360
 atcagctttc aaagtgataa tgaaat 386

<210> 31173
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h08d1
 <400> 31173

agtctaaaaa ctacttttg attcttggtt ctaattattg tttctctttt ctgcctgggt 60
 tgataactgt gtataacaac taagtagaag tacaaactta actaatgaaa cataaaatcc 120
 aagctaaata tcttcacttt cgaactttaa tccagctaag attaacaatt ataccctgcc 180
 ctctcactt atggccttta aactcaagtt atccatcacg gaggatttga atcagccttg 240
 tagttataca actctgcaac tacgggtata ccatttcacg tgtgcatgct ttctctgggt 300
 aatcctccag ctgtacaaag acttgaaatt atacctgtaa cccacttctt ttacacaact 360
 gctttttccg tatgcatttt gtatggctgt aaatagtata gtattgggtga ttgatgggtga 420
 tgggatgggt ggtcatagtg gcggcggtgg tgattcttta caaatttgtc cagcattgtt 480
 taggtcatct ttcactt 497

<210> 31174
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h09d1
 <400> 31174

ggaagaaact caacttacca atgcaaaaaca taactttctca aacaggaaac actaagcaca 60
 aatctcacac tatgctattg ctatacaca ccttcctctg tcgggatatc tcaggggtaa 120
 agtcttactg gataagagcc acaaattctc tcaataccac gtgatgtgga cgtactatat 180
 agcctactag ggcctcatta aagaaaatct tataataata attttaaaga aaatgatttt 240
 tcaacctatc attgaaggca agttattaga caaatgaaat ggggggacag agtctagatc 300

atatacctagg agaaagctga acctgcaatg catttttcat gacagtggta aatcctgtt 360
tcttcgaaaa 370

<210> 31175
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h10d1

<400> 31175

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accttattca tctgggttac agtgagatca gatgtcccat taaaacataa ttaagctca 120
taattttatt ctaggaatgc aggcataat tacatttagc caaatatgca ttccatcctt 180
gaagacgata ttcacgagct atctcagcag ggtttgctgc tttgatgatg ccacgtacca 240
cgatgatgat gtcactgccc ctatcatgga tcacagaata tggagtgtta tattgctgcc 300
ctaaagcatc gccaccagtt accatttgaa ctccaggggt tgctgaatg aaagaaggat 360
ttattggtgc ccctggccat gatgcaagat tgactgagat gaatccaatt acaaagtcag 420
aatgatcctt agcaatttta ct 442

<210> 31176
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h11d1

<400> 31176

gcacaaaact ggtaatatTT catatcaata aggattgcgg caaagccgca aagatacaac 60
attcattagg gaaaacagga gttgggaaaa ataaggggag aggggttgag gaagaatcaa 120
ttgctcacag agcatgctaa aacatctaaa tattccacac acggttattg aaacaacca 180
atatagaaaa tttttctttg gtgtattata aaagcagaac caatgaactt gtagattcta 240
ctttcttata ccattcactt ggcaagttcg ttacggatga gttttgctgc ggcaaccatg 300
tttgtgaggg ctggcttcac ttcagtgtac ttgcgggtct tgagaccaca gtcaggggtg 360
accacaaga tggttcttctc gagcactgca agcatcttat tgattctgtc agcgatttct 420

tcagttggtg ggattcttgg ggagtggatg tcatagacac cagggccaat ttcagcacca 480
tacttcacac cttcacggaa gactgacagg agc 513

<210> 31177
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h12d1

<400> 31177

gcatctcaaa atacaccaat aacatatcac caaaaaaaat aattcaagca caatgctaaa 60
caacaacatt gaaacaatga caccaataag ttgctttgta aaaccagaca tgctggtgta 120
gtttactacc acaaggccaa aattcattga caatttcggt tccacgataa agaaatgagg 180
gtatcaatag cctgggttggt cagggtatatt cttatgctgc gttacctctt taataacacc 240
atcagcaagt gagtcaacat cattgttctt gccaaaaaac tttagaatt ccatctcagg 300
actcatcaag tatctccact atttctactc tcatccttgc cattgaaata tttcaaagat 360
tagatcatat aacaatggag tgatcaacaa gataatctga gtcttctctt gctgtcttca 420
tgtaataaac gcgatatgca cgagcaacat tcttgacctc atcggggcta ccagttaatt 480
caattaactt tggatgaaat tctgtgacat attcaccgac t 521

<210> 31178
<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068a03d1

<400> 31178

ggtaaagat gaattaacaa aatattcggt acaaacagca acaattcaat ataacaacaa 60
gcaacctatc tttaaagca atacaagatt tataatgaaa atgaagcaac ctctatatc 120
acaacaataa tgaaataact ggtaacatgg agtcttatgt ttttatataa atactctccg 180
gctatatatg aatctacact ccaacagcaa cctcatatga tacaatctca ggtggggatg 240
agttcaagac cagtgaaca ttctgatcaa gttcattttt ggattctagc tccatgtcat 300
ttt 303

<210> 31179
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068a04d1

<400> 31179

acaaagaaat tcaattattg cacaggcact tttcacataa acaagtgaaa aagagggttaa 60
 gaaaattttc actaccaaact actaaagaag acacgaaaca attaacaaat atcatcctct 120
 aataaactgt tctaactgaa atccagttca cagcggcagc aatttccatt tgaaaacaaa 180
 taaaccaagc ataaaataac tgacatctta caatgttagc taaatggtag gaagagctac 240
 tgctgttgct taaggagatg tcaataatcg cttgatgcc a cttttctgtt cggatgtaag 300
 cctggaggga aacttgatat tgaacttgat tcttaagttt cccttcttgg aaggttcttt 360
 tggaatgggc ataccctctc ctttgacaac ttcttcatat gttggactaa tagtggagtt 420
 aatggggaat gtaagattcc ggccatcaag ggttgtcagc tgcact 466

<210> 31180
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068a05d1

<400> 31180

gtctcaacca aaactaggga attcatattc ataatcatat gcaccatgca aaagcagaca 60
 ataagtgaag tctctcctag tggaacgtac acaccaaag gtagattctc accaagcaaa 120
 atatggaaaa taaacccccca aagaagtgc agaagaaacc ataaaccatc aaattagaat 180
 gggctatttg gatacattgt tctttgacag ccctgaagta ccgttttctt ttccttcccg 240
 tttgatagtg taggttttagc caaggctact ttgctttcat tttggttcat cttgtctaata 300
 atgggttttt gcacctgccc atggccgttg agttttgatg ttttggtggt ctgaccttca 360
 acccgaactt tccaaggacg tgctcgaacc caacgc 396

<210> 31181
 <211> 355
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a06d1

<400> 31181

ctctaacc aa tcaaatttta tggcacactt gtacgtaagt ctgaactggg tttccaagac 60
 atgcttgctt ctagataact ttttgcctg aatcaaacct tttattttat acatcttgaa 120
 ggcacattct attctgacat tatgcttaga ccagatgcaa gtgatggaat actttgttca 180
 tatctgaaaa aattgcttgg atcaaccttg gtctttacct ctaccagtct atcatagttt 240
 cttttgaaat acttctcacc ccagactcta gcctctgcat aactagcatt tccaggtcca 300
 ttgacaccta tatcaacgtc tttatagttg atatatgaac ttctaggtga acttg 355

<210> 31182

<211> 559

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a07d1

<400> 31182

gtcagaattg tgaactactt ttacatacaa tcatgcatag agagagagag agagaattca 60
 gaaggaaata gagcaaaaag gaaactgaag tagcagacca taacaacttc agaattttgc 120
 agtataagca cattagcaga aagtctgcca taagatgggc tctcacatac cctgaaaacc 180
 taatatgtta attggcaata tttgaaagga acacaaaaca atgttgaaac aacaagctaa 240
 tagacaaaac aaatgaatgt tttttccaat tacatactga aacaaaaact gaatagtatc 300
 aaactacaag agcacaagtc caagtccaga tggtttcaag gcactacgaa tcctataatt 360
 gtacaagtag taatggagct gtccatctcc cgggtccaaac ttgagctctt tgaggaaact 420
 ctcattgtgc attacatcca atgcattgaa aacatcaaaa tccttttgct ttgctacaat 480
 cagcacatca ttcataact gagtcagtgg agtttttggg gagacattat aataagaata 540
 agcagctttc aaaattgag 559

<210> 31183

<211> 319

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a11d1

<400> 31183

ccagctaata taatagcttc aatagctctt tatgggaatc aagggtacat cattttccag 60
tcaacacaag aagactgcaa atcagcagcg agacattggt ttctgaatga agagagagaa 120
tggaaaaaaa gaaaatcttt gacaaaaata gaaggaaaaa taaaagcgcg ctatcacaag 180
gatagtacaa cactgaacca ggcactcaat tattttgaag gaaatttggt gtgatttaca 240
gcgcaagaca tcttgcaggt tgacaacttt ttatgctgat ttcccttggc gcttctcttc 300
ctccatcctg gctttgatg 319

<210> 31184

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a12d1

<400> 31184

cacaccaaag gatctgattc attaaaagca atagattctt cacaaccaca caccactcac 60
ttgacatata tggaacacat acataatcca tatagcatta cttagtgggg gggcatttct 120
tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg 180
aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt 240
gtggtagtgg catcttcttc agattggaaa cgctcaatg atggaaggga gagcgttgat 300
cttgatgatg ttgtaacgcg cgaaaccggt ttccttgaac agccacttcc a 351

<210> 31185

<211> 290

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068b02d1

<400> 31185

gagcccaaaa aaaatcctgg gggaaagttt tttttaaaat agctaaaaac gggtttcttt 60
ttaataaaaa aagggcatta attcttgccc cccacttaac ccttccattc ttttccaaa 120
taaactttta tttccagcta atgctttttt tttgaactat tttttatgct acaaaagctg 180

gttaacgggg ctttctttgc aaataaagat cgccgtaatt ttagtaaacc tatttttttt 240
 tataattaaa ttaaagcgct aattgggggg ttataccctt ggtttgggcc 290

<210> 31186
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b03d1

<400> 31186

acctctgctg tccgagtgcc ttcgtaaagg tctactagcca ccattggtcc catccgatct 60
 cttttaaaca attccaacaa caaaactcca ctaatagttc catccagcaa gtgaactctt 120
 tgaacaccac ctctgcaaac gaaagctgca gcggccaatt ctgacaggta gccattcatt 180
 cgacttagcc gctcttgacc tccaatagca aaaccttgct caccggaccc taagccattt 240
 ccattctcaa aaccaacacc attatggaag gttgcattat gccattctgt aaaacatcca 300
 ataggtggtg atttgact 318

<210> 31187
 <211> 342
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b04d1

<400> 31187

aaaaaaaaag gaaaaaccaa aagggtctaaa aaggccctgg aaaaaaaaaag gtttttgggg 60
 ggggccaaac cccctaataaa aaatttttaa gggggggggg gaggggaacct caaggggaaa 120
 aagcttttag gttttaaatt ggaaacaggg gggggggggg ccaaaatttt tggggcctgc 180
 cccaaaaccg ggtttgggat tcaattaaag ggaaaaatct caaccccccg gggggggggg 240
 ggggaaaccc catttttggg ctgggggggg ccttggttcc caaaaactcg gttttggata 300
 ttgggggggg cccccgggc caaaaaaaaaa aaaacccctt tt 342

<210> 31188
 <211> 370
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b06d1

<400> 31188

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 aggtagcttt tatttgcaaa atgatggcat tccatcccat aaaaatatag atccacacaa 120
 tttgtaatga acaagaatgt aatacttctt tctttaaacc atgataacac agattgtcag 180
 gagcaactgt tgtcttctag atgttggaac tcgatacagg ctcacggagg atcctctcca 240
 tctgttggtgc cctggtctta attgacatgt caaagacctt ctggctgaat tcaagcacia 300
 gaccaccaag tatgcttgga tcaatcttct gatcaagatg aacctttgct ccagaacctt 360
 ttatttctctg 370

<210> 31189

<211> 362

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068b12d1

<400> 31189

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 cggtagtcc gaacacgtga cccatgtcca tctcacttgg ttccattcca tctggcaatt 120
 gccacgtgaa gcagtgaaga agatgagcca ccgccaattc aagcgctag agccccaaca 180
 ccattccggg gcaggatctt tgacccgacc cgaatggaat gaactcgaag ttgctcccct 240
 tgaaatccgg cagccccggg ttaaggaacc gggcgggctt aaaagtctcg ggttcctccc 300
 atgaatactt gtccctccca atggcccccg cgttgatcat aacacgcgcc ttctgggga 360
 ct 362

<210> 31190

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068c01d1

<400> 31190

atcataaaga aagagtaaata cgatgggcaa agttgatggt gaaaactgta cactgaaatg 60

attttactca cgtatacatg ttactatact ggacacagat gaactgcatt ataaatgggg 120
 aaactaactc gaaacactac atcacagaat tccaaaattg gataatcata actatatatc 180
 aaaaaattat gacacaacac aaatatacat gtgcttatat gaacggggagg catggggaaa 240
 tttgttgata gcttggatct ggacctgtac agcgcttgca cgctgaaccc gagttgtctt 300
 gaagtgaagt tcgcctccga aattggatct gcatcaatct gcatgctagt ataaatgttc 360
 atgcatatat atgtgaacaa agaatactaa gagcaggagc tatatcctat atggagttca 420
 cagtatcatg tatgaacaca ccaggataaa gaattttgca tt 462

<210> 31191
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400068c02d1
 <400> 31191

atcataaaga aagagtaaata cgatggggcaa agttgatggt gaaaactgta cactgaaatg 60
 attttactca cgtatacatg ttactatact ggacacagat gaactgcatt ataaatgggg 120
 aaactaactc gaaacactac atcacagaat tccaaaattg gataatcata actatatatc 180
 aaaaaattat gacacaacac aaatatacat gtgcttatat gaacggggagg catggggaaa 240
 tttgttgata gcttggatct ggacctgtac agcgcttgca cgctgaaccc gagttgtctt 300
 gaagtgaagt tcgactccga aattggatct gcatcaatca tgatgctagg ataaatgttc 360
 atgcatatat atgtgaacaa agaatactaa gagcaggagc tatatcctat atggagttca 420
 cagcatcatg tatgaacac 439

<210> 31192
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400068c05d1
 <400> 31192

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 ttaccaaaaca tttatatata tatatatata taaaaaaaag gcaaccatga ccttaacaca 120

cccatcacaa gtccaaaaca cttgaacttg ctcaaggga agaaatgacc actttattct 180
aagggtgttt gtttagacac aaaacaccag agggcaacat aatacatact acataatttt 240
gaagttttga aactacatat agtttttattc attattttcta agggccattt ctgcttgaag 300
cttttagctct ccaacacctc acttgcaagt gcaggggttg caggtgcagt tagctccaca 360
t 361

<210> 31193
<211> 485
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068c07d1

<400> 31193
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aattgaacac aaatataaag ttgacattta aaaagcaaac caacaacgca acgggaaagc 120
cctaaaactc gctgtgctta acaaaaatgt aatcaggggt tctcaciaac acaacacatt 180
aaaacagaat gataaaagga gtcttgccac cgtcgatcaa gaaccaatt ctgggaacaa 240
aagttgagag atgatggtgg agacttcaaa ctatgttcga aaaacaagct acctataaac 300
gaagacacaa gggcaagaaa ccaacattta ttgtgaccat aagatacgac atccccgat 360
gaaccaaacc gcacgattca cttctttcttc tgggcagcct tgggtgacctt ggctccagta 420
ggatcctttt tctccacgtt tttgatgact cccacagcat cagtttgacg catattcctg 480
acagc 485

<210> 31194
<211> 359
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068c09d1

<400> 31194
ggaaaaaaa ggccgcttgg gaaactttta ttgaaagggt taattcactt cacatgcaat 60
tccatagctt cccacaaaaa atattaacat ttggcccgtta aaaccctccc aataaacaaa 120
ggaccccccc ctttttttagg cattacggga aaaccctga ttttaaaacg gttgccatca 180

gttttctat tccccaggt atccccctta tgggggaaaa taaaatcccc ccgccccct 240
 ggtaaaaacc cccctgccac ccaacaaaaa gggaaaaccc gcccgatttc ctttcggaag 300
 gaagggccct ttaaacaccc ccaacttttt tttaagcaaa attttttttt gagggggcc 359

<210> 31195
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068c11d1

<400> 31195

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 ctaaggctaa ctaattatta tcatcggtt ttggaaatgt ccaaagaaaa tgatgtcctt 120
 tcattcgga aaacaagcta ggggaaagg gattcaaatc aaaaaaaaaa ggttcttatg 180
 ggggagacca taaaccaagc cccggagggg gatcatcttg gtaaaaaaaaa ccaatcaagg 240
 ggaggggggtg cctgccttga tgccataacc ctattaatta agctaggatg cccccagg 300
 ttgccccatg ttggcctgat caacggccat ttccattcta aaaagggact tggt 354

<210> 31196
 <211> 351
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068c12d1

<400> 31196

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 ataaaaatgaa gaaaacagtc ctgaaactag agttttggaa gaatattttc ttttttactg 120
 ggatatcatc aacccacag agagggtttc ttaccactcc ccctgaagct ctctagtaaa 180
 acaatgaatg acaaaaataat ggggggggaa aaatagatta tcattcgggt actttgcagc 240
 catccctcgc ttcagtatca ttacattccc tctccttgct ccacccaaaa aaattgacaa 300
 aaagaatgcg ttgtgaaatg aaatacctat cacacgatgg aatgggtcaa a 351

<210> 31197
 <211> 354
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d02d1

<400> 31197

gcaaactaaa attaaaattg aaaagatcaa aatccaaatt acaccaagtt catagtaata 60
 ataactaata acaacaagtt aaaccagga taataatgag aaaaaagagt accggaaaga 120
 aacaagggtgg cgggtggtggt ttttgttttc caatttccaa atgaaacgaa accctaacca 180
 gagttttggt cgtccttggt atggggcttt ctgcagagga tcatgtgcat cggagagaaa 240
 atcccagagt caccctctt ggtcaaatag tcagcgggtct tgaagagcat ctcatgaaca 300
 tcgacggtcc ccttaggcgc gattcccaaa gcggcgagaa cagtgaccac aata 354

<210> 31198

<211> 319

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d06d1

<400> 31198

acaaacaaac ttattgtgat ttacttcatt ccatgggtctg gacactacag caataatcat 60
 aatttcaaaa tcctcctctt caacttgaga atgaattact tcttgccact ttgcatcata 120
 gaaagtgaga aactttcttc acatacaact ctgccttcta ttgttggaaga ggggtggatga 180
 atgaacaaag caattatgca gcagtcaact aatgttgcaa aaagatacat ttgtcatcca 240
 atcacctaga agcgagccca gcatctaata cattgtgcaa taaaaactcc cttacaatga 300
 acattataac cccaactt 319

<210> 31199

<211> 281

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d07d1

<400> 31199

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gcatatattc taatacaatg gacaagagta cgatgggatt tctacagaaa ccccgttgat 180
 gttttagaac aaacgtacct atattggaaa tagaatggga taacgttcta agtacaataa 240
 ttttatagga cacggccaaa tcattcttatg gagatgaaat t 281

<210> 31200
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d08d1

<400> 31200

gaatgccaac acgattttat ttcaaaagct gaccacatta tgtgtcacca aagaatcctc 60
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 ccttttatct gatctaaacc tctcaagttt cttacaattt gagcagatca ccaaacctat 180
 tttccttccc tattgtccta aacaccacaa gaacctatat aattagagta gagactcaac 240
 ctatatacag ccagttctca ctccccgag ctctcgcatg agcttccaag atttgaagtt 300
 atgtcatgca ccaaaccctt gattattttg cttcctgatg atcttgaaac atccatgcac 360
 tcctgtaggt ctgcatcaca ggctatcaaa acccattcgt gatcatcatc caggtagttg 420
 atttcaaagtg taccacacct tagtttcaat cttttggcaa cttcttcttt cagttcaaca 480
 atgccacagg tcaacgagac ccgaaatctt atgatatctt ctctgtatgt ggccttggat 540
 gtcactgtct tcatttcttt catagctaca aa 572

<210> 31201
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d09d1

<400> 31201

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 tacaatttca atgacatttt caccgcatc tgtacgactt taataaagga agatgttagg 120
 cgtgagatcc ttttggttca agattttttg tattccatt ctgtaattct caataaccaa 180
 aagaatccta cacattaataa aatgaatatt tgtcatcatc atgtagagct caaattagag 240

tcgaagatat tagaaacctc gtggacttta aacaaaatgg acatgctgta tccaattgat 300
 tacacactgg acacacttcc ctttgaagtt tggatacaca ttgcgactct cctcgtcaga 360
 gctcttttga caactatgaa ttggagggag aaagcttcag aatagccgaa aggatatatg 420
 taagcacaaa aaatagcgct aattctttca tttgaataca cccat 465

<210> 31202
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d10d1

<400> 31202

ctgaaaaccg aattatcatt tattaactgt aacttgcttt ggaacaattc aagttcacta 60
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 aaacttattc caacaccact catcaaacag aaaaacaatc caaactttca aaactcacia 180
 actcaagaac aacttgaaat tactactaac aaaaacaaga ccaattgggtc aaaaaccatg 240
 aatcttgatc tggtccttcc tgacaaggcc agcctgaacg aggaagtggg agacgttctt 300
 acgctgggtc ccttgaggtt ggatgatctt gccaaagctc ttgtcctgca ccacgggtcc 360
 gttgcagcag aactccttct tgaggctcctt gaggatcttc tcgtagctga actccttctt 420
 cagcccttgc actgtgggtc gactcttctt cccattcctc tgctgaattc gaatatgcac 480
 atactccttt gctccggggg ca 502

<210> 31203
 <211> 428
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d11d1

<400> 31203

aacaaaaaaa actgaaacta gaccatttca atgtagatac gggataaata cttcacaatc 60
 aaagactgga tgctaggaag tttaactagt gcatgatagt tatcagcttc tggttaacaaa 120
 aaagtaactg ctgttgacaa aaaaaggatg gaaatactga aacaaacaaa gggaagtttt 180
 accacccttt ctacacaatg tatcaactgg aaagttgaag caaatatcca ctcacaaatc 240

tttgacgaag accatcagtt aatgagacgc cggacgagtg acccttggtc tcaccggagt 300
 ctttgaagga cttaccctta ttggatgggg cccaagagc atgccacttc aggttagtgc 360
 cattatagcg ctttcagcca ttgggaattt cacaaaaaca attcgggttg aatgcacgtg 420
 gtgccccca 428

<210> 31204
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d12d1

<400> 31204

ggatcaaacc aacctatatt ctatatgggc ttttactttg catcagatac gacaatatag 60
 aacgttatat ttccgtcata atgttgacag taatgttcaa tatattacat acgctaaaat 120
 ctagaacaac gcatgcccc ccatcataca caatatggga acaactggac taccgaaata 180
 tgggtgttatc taaaagacaa ttatatgttg acagaagcaa tggcagcata gctattaatc 240
 tccaaagaca agcttatgct tcgggatata aacattacag gggtaacgaa acaatacaat 300
 caaaatatgt aagcaacaac ttatccaaag agctgccttc ggatctctgg aagctgttta 360
 cggaacacta catcaagtcg tgcatacaaga gtattttttac acacaatctt tccatcacga 420
 gaagccaaca ccaccccacc agagcagtag agatcatga 459

<210> 31205
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e01d1

<400> 31205

cgtccaaaaa ttatagataa aaaaaaagtt attagaatta cagatatacc ctttattgat 60
 aataaaaaatg ttatgtttac atggtagaca attatcatcc tttatcaggt tgcctaccct 120
 tacacttttg aaccttttaa atcatcaatc acagcttggt ttttggtgat gcaacaatcg 180
 aaccatact ttgatgggtt gagatctcaa accacaaagc catgagtga agtgacacat 240
 ctcgttcaat aaaaactaga taactaataa agtatagttt gtagtaataa ataaataagc 300

atactctttt aaatgaatct atacgtctgg acgctcattc tgatcaaaaa tacgattatg 360
gcaagtaggg ttgcaagggt aggcacaatc tatttacgga agggccttcg atcataaaac 420
caatcaccca ctgcctttgc aattgatgtc ttggccacca c 461

<210> 31206
<211> 395
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068e02d1

<400> 31206

caaaaaaggc gttctttata aatttgacag agaattacaa gagagattgt gatcgcataa 60
aaaagaagaa cagagcatgg tgtcaaacac taattaccgg tacaaaattc tctgtgccgt 120
accatacgta aaatcttgat attcataact ataacaataa caataacatc ataaaccata 180
aaattcttcc attgtgtatt tgtgtttaga atgatctgaa tgatacatcg ttactattac 240
cttcttcaca agcgaatcac caaaacgcaa gcgtgctaaa caagccaacc aaaagtggca 300
acaacatggt ggcaaagctc cggcgggtggc ggtggctgat ggctccgctg aaattctcgt 360
cgacgggata caagttccc ggaggcccgg tgatg 395

<210> 31207
<211> 407
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068e03d1

<400> 31207

caagaaacaa ggtgtattaa aaaaattaga gcaaatgata taacatacaa tacaaggaac 60
gaaagctgct tttcaattca tatatgaaat gtgctgtgga ctgcggtgga cagtgtcgtc 120
ttgtgtgtaa ccaattaacc attatgaata agaaactgga aggtccaaca tattctattt 180
tctaactaaa gacaagtctc ggacacacct gatgcttata ggggcgaaaa caacctaacg 240
gaaatagatg gatatttggg ggatgtcaat gtcattatca tcatcatcct cacaggcgac 300
aacaacatcc aagtgacgac ggtaagaagg tatttccacc ttggccactt tcttagctaa 360
atccaccatt tttttgtcca ttogttctct gggcctaggg aacatgc 407

<210> 31208
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e04d1

<400> 31208

ctcaaaggat aactagattc gatcagtatc ctaaatacaca ccttgacctc aacacagtat 60
 agacaaaaac atgaggcaag gctttctcca aagacattcc aagaatccaa cgtagacaaa 120
 agtcatgcat aagaacaaca aatattacgg aaacatgact caatataaca acataaaaagc 180
 aagccaatat aagaacaaac agataggtgc cgcataacat tgttcccaa ctccactccc 240
 actaaccccc tattttttcc attctccaca ccaagctcat caaagtttta tcccgcaaac 300
 cgtacataca ctattagtaa ttacaatctt cttcacgttg gagagcagag caaacacact 360
 tacgcatcac atagcataag taagacacag gcattcttca cattcagtct cttcac 416

<210> 31209
 <211> 536
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e09d1

<400> 31209

acatactggg aaacctttta ttggataacc atggaagttg acagaaacag caaaatcatc 60
 ccattcatga tttttgtgca acaatgatca tttccattat tctagggttt ttattaagac 120
 aatgatgaag acaatctttg agttcacggt atgctagtgt ttttaaatac atggacattg 180
 cagtattttg cttgtagatg aatgttgac catttgatta gtcggtctcc aaactgcagc 240
 ctttgctcct gtttgccctg gcaactcactt cagtccctt tgttcttgat tatgtttttc 300
 aatttctcat ttgcagccac tagttcagca gttatgcctg gttcattggc tgaatgcctt 360
 gcacaggaa ccaccctaaa atctgcctct ggccaagctt tatgaagatc ccaggctggc 420
 atcataggac agcaaacatc atatttttcc tgaacgaatg tgggtgtttat atgccttatt 480
 ttatcaattc ttgccaccgg aatgaatcaa aggggaaaaa tcccttggtt acaaaa 536

<210> 31210

<211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e10d1

<400> 31210

aactcgcgaa ttgtttcttc attttatgca tatgcatata caaatttaca tacatgcatt 60
 tatttgcaca aggctcataa gagtaaagta cagagtgggg attcaggggg actagttgta 120
 tgtaagaagt attttttcga gtgcatattt tgcttctatt gcaaaccaaa tggaccttat 180
 gatctgaagc ttggcacaaa acacagatta tacaatttta agctacactc tcaaaacaga 240
 taagctatga aaatggacat tgatcactga tcaatcatag gtgcatgaat tctttttgaa 300
 tttgataggc tttgatcgag aagagttgag gaccaagggg caagtgattt ccttacgatg 360
 ccttgctctg accagtttac ccactacatt tgcacgcgaa cggatttcaa agttcaat 418

<210> 31211
 <211> 491
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e12d1

<400> 31211

gcagcataaa gacacgaaga tattactaat atgatgatga ctagtacaat catgtcgaac 60
 aagatttcaa gtattacaaa ttgaaatcca ttacctggg ttggatgaca ataataatat 120
 atataaaaag tatattaaaa aaaaaactta caaacagctt aaatagccag aacatttgga 180
 ttactccaa gcaattaagg tcaacaacac aaaggtgaat tggatcatca catcttctat 240
 gacacagtgt caatcgcacc cctttacaac cttcatacaa gtgagctcaa taaaaaaca 300
 ccggttaaag tcccccgtaa ctggaaaagg ttcattcatc attgtcagca taaccacaga 360
 gtgcaacatc attccaatcc ctcttctaac ttttgataa ttcataaaag cacaacagaa 420
 acatgggttag tggtatatca cccaatcaa attaaaactc catgcaaaga agttgccgtt 480
 attagacatt g 491

<210> 31212
 <211> 446
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f04d1

<400> 31212

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aatgcttcat aaatatacaa gaaattcttg tacatcattt ttctttatat caaacctgat   60
aaaagagata taggaaatta taacgtgcaa atattagaat ccaaaatata aatagaaaaa  120
tcttaattat tcggagcatc ttcaaactaa tactacaaac ccagtccaat tttaatgact  180
acaacatttt ttgaaatcgg aaatcagtcg tgcttcacgt gggccatcat aaccattaga  240
atataatggt gaccaccaac cttgaatcct tgccttggt tacttaaatt ccctccaaga  300
caagctggga atgaaaaaac tcgcaaatca ccccaaatta acacccccac ctgaaaactc  360
cacctcctga gcaggtgcca aggatgagac ccagtctgat gtgtgtgtag gaagaagccc  420
caatgcattg agctttcaaa caccta                                     446
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<210> 31213

<211> 399

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f05d1

<400> 31213

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ccaataccag cggaatgttg tttgaaattt aagggaattc atgaagcaat caagatctgg  120
ggatgttatg cttcttacat ttaggaactt gatagttttg aactctacca acattatata  180
gctggctaag gatttcctga cagggataaa aacctaacag attgggggac atctatTTTT  240
aaacttgga tataaaaaaa aacactggag cttattttat ttggataact cagggctcat  300
ggacacttgg gaccttaaaa gggcaggcaa cagacctgtt taacaaactg ggcttgtaga  360
ttatatggcc tgcttgaaac cttcatttgg ccaaagggtg                                     399
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<210> 31214

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f06d1

<400> 31214

ctctctccat cccattacta tacaccctgc aaaatgcctt attctttcta ttccctccct 60
 cgctctcaat taattaagct tcttcttctt ccctcttaac tccattcctc tgaacagtac 120
 cactgcagag ttggtgcttg ttcgtccgag aagaaattgc aggcctcgtc ggcgtgaga 180
 aaattgtgct cctccatctt cacgtactgc gtcgtcgtct ggtactgttt ctggaactgg 240
 aaacagttgt tcatcgacga agaagaaggc gacgacaaaa gcccgtagact ttgcagaacc 300
 ccacacgacg aaatcgccgc gttgttggtg gggctgtggt tgttgttctc ctcgttcaag 360
 atcgacttg agtcgctatc agaagacca tctttgaaat ccacatggaa cacagaaccc 420
 ccctccacct tatcactctt gttgaaacac tcggtactca actccttgag tccaatccag 480
 gaatggcgga ttcacaagcg gggtactatc 510

<210> 31215

<211> 453

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f07d1

<400> 31215

aaactcaacc tcaggaaatc acctgatata tacatcccta aataatgaaa aataaacacg 60
 gatgtaagag ccaaaaaaag taacgagaat atacatgcac ttttgtacaa aggaccaact 120
 taagtaagaa aagagagaat aaagataaca taacacccaa tctagtttag tctagttcgt 180
 tagtttctaa gggtactccc agcacttttc tacttatttg gtactctcgt ttttatgtgt 240
 tcaacaatct ctagaagaga ccagagttg aggggaagcta tcttcatttt tgagaagaat 300
 gcacattggt cttacttctt acttcttaca aaatcgccat cctttggtag cacctgctga 360
 aaggtaggca aagtcttaat agtttccatg tattgatcat tactgttaat gctattacaa 420
 attcaccatc cttactggc actcaatggg aaa 453

<210> 31216

<211> 541

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f09d1

<400> 31216

accaatagaa ttctgtgagtc tcaaattcat ttctattcat catgcccaaa cttctataca 60
 ctgcaaagtc atatctaagc accttgaaag tcaaagcatt tatataattc atcagctgta 120
 gaggtaacga aatgtaactc aaaaaatttg attacttttt tacaacatcc ttgaatgaaa 180
 ctggccaaac cctgcacgtt cctcaatgac aaaataccta gattagaagg atgaggttcc 240
 tattgaagag tatccagcag cttttctttc cttcagtgtt gaagccaacc agtccaggcc 300
 ctcataaaga ccatctgcct tgagtgcaca agtgccatgt atgtgccatt ttctattctt 360
 tagatcaaag agacctagtg cttcacatac ttgcattggc gtcacgccc ctctcaggtc 420
 ttgtttgttg gcaaacacca agatgacact attgagcata aatgggtcat ttatgattgt 480
 ctgaaattcc tgctttgctt tacctattct ctcacgatcc aagctatcaa caacataaat 540
 c 541

<210> 31217

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f11d1

<400> 31217

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 aaccattca ggtccaacaa attcaaagc tgtgtaaata tgggagggga gcaaattgaa 120
 taaaataata taaaatagta gagtatctgt attctgagac aaacataaac aactgtaagt 180
 aaaactaacc gcaagaatac aatttgact aagcacctag agtgcattta agtatctaag 240
 cacttgctca ttgaactcaa agctcactga attccaagct gaaattgaaa ctaagcactt 300
 gcatgacatg tcgtctgcaa ttctctttac aacatgctcc taaaacaaga acattagttc 360
 tagatgttac tcattttgaa agcttatgat cagcagcatg acacaaagac tactgagaaa 420
 gattttaacc aagacatgtg aactcttaca ttcatggaag cttaaaatat cagcttca 478

<210> 31218

<211> 204

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g02d1

<400> 31218

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ggggggcccc aataaaaaaa aaaaaatttt ttagggggaa aaggggaaaa cccacccca   60
aaaaaggggg gggctttggg gaaaaatccc cccacaaaaa aaaaaggggg ggtttgaaaa 120
aaaaaggact ttttgggggg ttgggcccc caaaaaacct ttgtgcatgg ggggggggaa 180
aaaaaaaaaa aaggggggggt tttt                                     204

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<210> 31219

<211> 327

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g03d1

<400> 31219

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ccttcctaac tgaaatcctt gttagtttag aaaaagctca acttcattca aatgtagaaa   60
agtaaaaatt cttaagctac aacagaaagc tggatctttc agccaaaatt tcacaactac 120
ttcctcgtgt tctctcatac tcaaccctag tcagttacag gattctgtat tccatatcca 180
tggtagagtc tagtgagtgg ctgaacgtga gaaattgggt atctacttct tcttctttga 240
cttgcttgac agagactgag tataagcagt tccctgtagc cattcatctg ttgaagcatc 300
agtagtctta gtcccaactt caacttt                                     327

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<210> 31220

<211> 340

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g05d1

<400> 31220

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ggggacaaac aaggataaat cccccttaac atcaattaat caatagctgg gcgaagatta   60
caaatcacag actttcaaag ggggtgtagc ctcctggga tccccggcca attttttgaa 120
taaaccaacc acccatttcc caacttttgg gtgagaacca atttttttaa caaggtaacc 180
aacaacattt tacgcccggg aatttaaagc aaacataatg gctgataatt aaccaagggg 240
gcacatgcga cacaccacac acattacaac tttttttagc gggaaccact tagggatcat 300

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tttaacgagc cttaacaaga tgagcctccc cgtttttggg

340

<210> 31221
 <211> 619
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g08d1

<400> 31221

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 ttttttttta agaaaaaaga aagttctaata tattaataaa ttatatctat atatataat 120
 atacagatag atattctata tcttttatct taattaatat ttgaccctc cttataatgg 180
 gttatagttt tctttatttt taggaactta tccattcctt ttttaatgtg cccgacaatc 240
 cgaaagaatt ctgggggagg ggtcatttcg tttttgatct agaataaata gagcttcaag 300
 aaatgagaga attaagaata cccacgagaa aactaatcc aatccataat gatgtaccgg 360
 aaaatacaac atttttgtta ttcgaccaac cttcaggaga agcaaataca acaggtgcac 420
 taatcaataa aataaatgaa atagcaatta atgcaaaaac agctaattgg aaagcaatag 480
 tcatgtttct aatcctcaa tttaccaaca aaagaacttt accatttgat cccccaaccc 540
 cttgatccct ttatttgaca aaaaatttat aataaaaaaa cgcaagaggg ttttatcatg 600
 aattcattga tttttttac 619

<210> 31222
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g09d1

<400> 31222

gtgacatcga ccacccaaaa ttgttatgca ttaaaaacaa tgttacacat tattacaatt 60
 ttattcaaat atacaaaag aatcaatcaa ccagcaaata aatagatgga acatgggtgat 120
 gccggttgat atcctctaac tgcataaatt aattaccatc caaactcatg tcatttacac 180
 tttgaagcaa cggatccctt cggcaatgag ggatgctaca gcctcctttc acttgggtat 240
 aacaacttaa ccaagggaat caacacaaat aaatgtggta caataataag acacgaaaaa 300

ggctctctaa ccaagtacct tgcgaagttc atcgggtcaac ttcacgacgac ccgatggctc 360
 caacttgctt aaaagggcag caagaccttg aggtagagct tgcaaatacta gagctgagtc 420
 accaatatct gtcaattgaa gcaacacttt ctgcgcacgc aattccttta gtttattctc 480
 gtaatttgca ggattatcct tccatctgaa g 511

<210> 31223
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g10d1

<400> 31223

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 atattggcgt ggaacaaaaa cgcagcactg aactaaaccc taagcagttc cctttgggtt 120
 tccaaagaca aaaaatgtcc caacaatttg agtttgccct aaggcaacaa aaaaggccct 180
 tcccaccgga ggagaagtcc cccaacagaa ccggcggggc gaaaccccc tttaaacccc 240
 cccccaattg ctgggtgggg ggcaaaaaa gggggggggc cccccgggaa caaaaaggga 300
 gcccccgcc gttggagagg tctttgtttt tccacaaaaa acaaaatttt ttttttaaaa 360
 cccggtgaag aagcctcttt ttcggcccca caaatattgt tgggcccctt atttttgggg 420
 ggggcccccc ccctttggac gccccaaaa agaagagttc ttttagaagg gggcccc 477

<210> 31224
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g11d1

<400> 31224

aaaatatcca aagccaaaat ttgacacata aatttgattt tttaaaagca aaccaagcaa 60
 aaattgaaca caaatataaa gttgacattt aaaaagcaaa ccaacaacgc aacggcaag 120
 ccctaaaact cgctgcgctt aacaaaaatg taatcagggg ttctcacaaa cacaacacat 180
 taaaacagaa tgataaaagg agtcttgcca ccgtcgatca agaaccat tctgggaaca 240
 aaagttgcga gatgatggtg gagacttcaa actatgtccg aaaaacaagc tacctagaaa 300

cgaagacaca agggctagaa accaacattt attgtaacca taagaaacga catcccctga 360
 tgaaccaaac cggacgattc acttcttctt ctgggcagcc ttggtgacct tggctccagt 420
 aggatccttc ttcttcacgt tcttgatgac tcccacagca acagtttgac gcatatccct 480
 gacagcaaag cgaccaagtg gggg 504

<210> 31225
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g12d1

<400> 31225

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 aaactacaga accctggaaa ccaaccgcaa tcaaatttgg tccccctttg gaatttgaat 120
 cccaatcccg ggcttgggtt atttaaccct ttgtcccggg cccatggctg gctgaaattt 180
 gtacccaaac attttttttt ttggttcaaa aaaaaagggg aaaaatcttt ttgttcccgg 240
 cccccttatg ggaaaaaggg gggagggccc ccccggggg ctttaagccc tcggcttccc 300
 ttttacttaa agagggggcc ctttgggccc ttcacatttt cttaaactgg ttaagccct 359

<210> 31226
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h01d1

<400> 31226

gcaggataaa gggggaaata caaatattatg aggtgggagt taagtataat ttgtatgctc 60
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 acacatcaac ttacagaaa aacaggtgat tcccgatct tcccttgat gattacaagg 180
 aatgcttccg tttagtcctt cccacaaatg tgtcaataaa acggaatgca tacccttcta 240
 atacaagtaa atgcaagaaa tgctcatcca ctgtacagtt tactctcata aggaatgtac 300
 aatgctaaca aaactagccc ccgccagagc aaaaagccta tctttacatt ttgccatatt 360
 ctcaaataaa actttcccac gagaaaaata gcatggcatt caatattatg gatg 414

<210> 31227
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400068h02d1

<400> 31227

gatcatccat tataaacttc tccataatth ccaccatgag aataacgtgg acacttgtac 60
 aaaagctaga attggcatgt agtgttgatt cttcctgtca tcaacttggtt acctaacttc 120
 atccaattht aacaaccaca agacttacag aaaattgtaa gtaaaacgtt ttctttatat 180
 aagaacaatc atatattgta caccagctga cctatatggc tgtaccttgc caaaaagaaa 240
 ggaaaaaatt cctaagcata cactaccagc caacagaaaa agcagatccc aagatagaat 300
 ctgcaatctg catcatthta ataaaggagc cggatcttgg tacatctagg gatctaaact 360
 ctctcgccac taaacaggat gcagctatgt attaaccctc ttgtactacta ccccatcaac 420
 t 421

<210> 31228
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h03d1

<400> 31228

cataaaatca gatttcatat attataggat catctgtaac cccaactaca ccaccaagag 60
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 accccctctc ttagccgtag cctttttcgc tggagacttt acactctttg gtttcacact 180
 cttcactggc gctttcttag caggcgctac tttcttcgct gccggcttcg cagcaggagc 240
 tgctttcttc cctgggtgaag tccgtgtcga cgtccttgaa gccttggcgg gcttcgcttt 300
 gggctttgcc gcgggcttgg cagcagcagc ctttggttta gcagcgggct tgggcttggg 360
 cttggcagct ggcttaatcc ctttgggctt ggccgcagca agctttgggc ttggaaagca 420
 gcaccgcagc agcctttggg t 441

<210> 31229
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h05d1

<400> 31229

cgcccatgat ctcattttat gttgccttca gaactcaagc tatacataac tgtaaaacat 60
 gcatgtatta catacaccgt cttctcttta ctaattcaga acagacattc agtaaacaga 120
 taccgaataa gcaaaagggtc tccagataaa taaataaaac acacagatac acaaagctat 180
 aatatagtca cccttcacta ccagagtttc atcttgcccc caaattttcc agtctatgtt 240
 tttatgactt ttttgcatth gctttcgagcaggatcagat cagtcagcag tcattggatg 300
 ggtcatgcaa cacctgaacc gagccttccg aactgttggtc atgatctcat tctctgcatt 360
 ctcaagcatt ccacaattt cagcaaattg tggcctgaca tcagggttgg gatcccagca 420
 tcttgatcatg atgtcacgga gaaccgctag gcaatcgta ggtatgattg g 471

<210> 31230
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h07d1

<400> 31230

aagagcaaga tatgggtaga gatcggttct tcaccacaa acaatttctg tattatgcta 60
 gtcgtacata acggaattca aatccttggt acagaagata cttcatgaca gcctttatta 120
 ttttcaacc agtcacagta atcaggactt cttttaatac actttgcctg atgccctaag 180
 aatgaagtat gaagcgagga caaaaaata aaaaatatta agccaaattt tgcaaaatca 240
 ctatagacta agcaacatac aacaaaacct ttacaaagag tagccgtccc ttaaaacatg 300
 ttacctggca agattttctg aaatctccct tcacaataaa tgtctccaag cactcaacat 360
 aggatgttgc ataaaatgta caatctcaac agtaactcac cctaatacgt gaacaataat 420
 agaagcaagc taccccaaca aatccaaaag ggggtggctgc tcagcgtgtg acttggtatg 480
 agaggaacca gtggttgaag cagatgccct t 511

<210> 31231
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h09d1

<400> 31231

ggaaacaaat tcaccatctt tgggggataa gcttgatcca attacattgg tttaaataca 60
 aaatgcctaa caggggtttac atttaaccaa aaatacccggt gctgggttcca aatttcacatca 120
 actcccatga cctgaaaaca gaatgtgtga aacggacaag ttgagatccc aactgcggat 180
 ttttgataa ccaaaaaata acaaaatgcc tgaattcatt ttagggatat gtagagccca 240
 tatgatatga ggactgcaac ctctgctaac taataacatt tattaatcca acaaaacaag 300
 gggaaaaaga aaaaaaaagt aagccacttt tgtgtgagag ttaaaaaagt attgaagggg 360
 tcctgggtga gctgttcttt ttgctgtgtt gttgg 395

<210> 31232
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h12d1

<400> 31232

gagaactcca ccattcacgc aacctgtttt aatgaaagga atatctgtca tgaaaaatct 60
 agatgaagag aaaatgatca gatgatgcgg cggcacaggg taatcccatc acccacgggg 120
 agctggcaaa tctcgatcct cgaatcttga gccagatact tgttgagctc catcacatgg 180
 ccgcgaagag gcttaatgta atccatcaat ggtgcatcgg gtggtgcagc cacagatcca 240
 gcccataggg tgttatcgta tccgatcagt cctccaatct tcacaagctc tagtaccctc 300
 ttgtggtagc tcaagtaatt gtccttatca gcatccacga aaacgaaatc caacgacccc 360
 tttttatatt catctttaag catctcgctc agaaacggaa gagcaggtcc ttctctgaaa 420
 tcaatcttgt gagccactcc agctttttga attattggca atcctaactc atagtattcg 480
 cgattcacat ccaaagccaa gatctttcca tcaggggg 518

<210> 31233
 <211> 332

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069b01d1

<400> 31233

aaaaaaagaa agccctgcaa aagtaatata aattttgggc ttagttctcc aacaaatctt 60
 tttgtttaac aggggaaact tgggcctttt tccaccaaac aaaatattct tgattaaggg 120
 tccccaaaac tgaaggcaac ttttagatta actaaaaggc cccctttgaa aaaaaataga 180
 aaacaaattt ttaataattt ttcaggggtt tgccaatag gatcacaagg tacagccccg 240
 ggcaattttt actccccctt gtccataaaa tagcaatccc gggattcaaa aacatttggt 300
 ttttaagaat tttttacca ccttgggttt tt 332

<210> 31234
 <211> 368
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069b03d1

<400> 31234

aattaaagg gattggatta atcatacctc aaaaaccgga atttaaaaca gaagttcccc 60
 ctgtttccca acaaagataa tagattgtga gatacaccac tcataaaagc tttctcaaag 120
 ggggaaaatt aacccaatca cagcacaaga aaccgcatt acccaatact tttaaatatg 180
 tccttagctg gagagcaatc acattaatct tccttttaga gcccttccaa atctccggcc 240
 cccgggttta ataaaggatc tttgggttgg ccggattttc aaattgccga agaataataa 300
 aatttgagat tttatcccaa attttttttg ccttttgaac agctcctttg atacctttgg 360
 ggggttca 368

<210> 31235
 <211> 330
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069c01d1

<400> 31235

attgggcat aatacgctga aatacctgac cctgtttgtt cacacacaaa ctactacat 60

tactcaaagc ccacctgatt tctctatttt cttccaactt tataattgag caagggcttc 120
 aaaggattcg tttcacactc ataccttggt tattctacaa accaaaacac aaagataacg 180
 tactaaataa gtgatagggtg atgctgattt ccaattgtcc acaacttata tagtagcatc 240
 aagtccaagt tctatggccc tgagtttcaa tgatttcaag caacgaatgg cttcatcaag 300
 aagctcgatt ggggtgcttgt cctttcacca 330

<210> 31236
 <211> 389
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069d03d1

<400> 31236

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 tatagctaca tcaataagcc atcccatata ccgactacaa ttgttacata caaaacatga 120
 attcctccac ctggccttcc acatgaaaaa tctaatttgc taattgctat atagctacat 180
 cttgtcaatt tggcattgat ttatctagtc atagaaatgc catgacctac ggatatgtaa 240
 ctggaaaaca aaaaaaaaaa aacaaatgtg caaggaatgc ttagcagcac ctacaccagt 300
 ctctcattt gaagggcttc tatggcgatg gggtcccatt tgcaacacca tcaccattat 360
 caaccatggt aacatcttcc atgctgttt 389

<210> 31237
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069d09d1

<400> 31237

ctcgttctct gcaaccatgt cactgaaatc ttctcgctgg ctacgtaact tctcttcttc 60
 ccttgcttct tcgtacttgg caggcaaac attttccatg gcttccaact cttcaggctg 120
 taaagtgaca tccactttat ctgtcttctg acctctaagc aaatcaaccc ttttagcacc 180
 tgatttgtcc tgtgtgccag tgccaaccac ataagtgtgt gtggttccaa gcaaagttcc 240
 aggggcaatt ttttcttctt tctcttcaag tacttgataa agaggcctct caggctcctt 300

cctctgttgc ttccggaggt cgataacatc aggtgtttcc actccagcgg gagtgcctga 360
 cagactatca acagactgaa taccagcttc aagttcctc 399

<210> 31238
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400069e04d1
 <400> 31238

caaaggctca aacctgagat gttataaaaa catccggggc taaatcaaaa tattttttct 60
 ttttggccta aaaacatatc ggttacaaaa catagagaac aagactagaa taagttcaac 120
 tgcctatact ccgaacaaaa atgacttaac ctttcaaata atcagctatg acacaatgaa 180
 gtcgtgctgg aatccttgag aatgcagcat cttttcaact cctttgcctt tgagcttcat 240
 ctattttctt tttccgttgt ttaatgcgat cagtctgagc ttccttcagt ttcttagata 300
 tcttcatggc ttcagctagc ttcctttttt tacgtgacat cataacttta ctcatgtcat 360
 catcaacatt ttcttgaaca ctggcagttg attcaccagt ctgtaccact ccagtagatg 420
 tttctttaga acctgctgaa gtatatgtaa cacc 454

<210> 31239
 <211> 344
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400069e08d1
 <400> 31239

aaacacaccc taattggcct ttatttttta tcataatgat aacatataat catccctttc 60
 atgaaacgtt gcacctaatt ttgaaataat tcgaccggac aaaacaaaaa tttccaaagg 120
 gggggggcca gacaaaacag aaaacttaga acccattccc caacatagtt ttataaaaact 180
 ttaacttaaa aaaaccccat ttattaataa attaattatc tcccttctag gaaaataagg 240
 gacggggggg cacaacgacg tgggtccaaca ttcacaggtc attcatgttg gcccaactcaa 300
 cacccatgtt ggccaaccct aaaaaccggt caagttgttt cagg 344

<210> 31240
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069e09d1

<400> 31240

acaagaaaaa tccaatcaat aacatgtgta cgcacaatga gattcactat caatcaccaa 60
 ttcttcatgt ataataaaac gagtggacat taagattttc tgtaactgca taatgcatac 120
 tggcatccat aataccatga atacaaattc tttcatagaa agggggggaa ttaactaccc 180
 tgaatgttca caaaacctaa ctaagtagat ctttgaatgc agagaagcaa gtttcagtct 240
 gcacgagagc cactgctact tgcagaagat ttcttaccgc tataacttctg cttccccaag 300
 ctgaagggga tatatttgta tttcatcatg tgtgcaactt ggcggtcat cgctaggaca 360
 atgtgaacaa accagtaact gagtcttata ggccaaaaga caggaacatt atacagggaa 420
 aataaagtca tcacaaatgc 440

<210> 31241
 <211> 268
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069e12d1

<400> 31241

ataaaaacaa gtgccaacga aaccgccgat ttattgtacc tttgggttag aaccaacaca 60
 aaagggggaa gcgcttatta tgtttcaacc cttcaaaaat gtgtaccact ttttccgatc 120
 caaaatgtta tatggccacc cactagagcg tgtaactcct tcacaaagac taggctagag 180
 aagtaattaa acttcattgt attgtgagct ctactgagtg caacccttac gcttttgggc 240
 tccataccct gaaaacattg gcccttgt 268

<210> 31242
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069f01d1

<400> 31242

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acaaaatagc tccacacctg ctgagctaataat aatgccaaag caaactacac ccgtacatat 120
tcacgataaa cctatccaaa cctcaggggtt tacactcata caatcatgca tatcggtaca 180
atattatggt tcgtgctttt gacaacactt catttgtaag gattgggaag tgaataaagc 240
aacaaaaaac ataaatctac gtcaacaagt gcaactcagg acggatagga agctacagct 300
taggtaaagg attgaacggc agaagacgtg gtaactaac ttgataagag accgactatg 360
acagcactgt tgtacgtgct tggttctgtt tgcattggaat tgttcctgga atcaatgaaa 420
gtctcattta agaaggggtcc accaacaagt gctccagtag ctacattggg attaggatca 480
gatgactcaa gccactggaa gccatccttg cagccagttt ttgcatcagc aggaattgaa 540
gcacccttat gatgca 556

<210> 31243
<211> 435
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400069f03d1
<400> 31243

agaaaaactg aaattccatt actagtaacc aaaagtgaca tttagattga agtcaaggaa 60
ggaagactcc tctcaacaat catccactca atcccaaatg tcaaacaaaa acaaccaaca 120
actcaacacc ttaacctaaa ccataacca acgattccta cctgactaac cacaacacag 180
taaaacaaga cacacaactg agcttagtaa ctcaaccttg actcacacac acaatgcttg 240
tggtatcatga actacattgt ttattcttaa cattatcttc aattattcaa taagtctcca 300
ttttatttgc actcgaatat ttatctatac aaaacttaga tagagtacct caaggggttac 360
cactattact ctctgatcag aacaaaaatt tcaccttgat aattagtaaa actccaattg 420
tcgaggtgaa acttc 435

<210> 31244
<211> 429
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400069f04d1

<400> 31244

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aaaaaaacac ggaaccccg gtttttttta cgggtttttt tgggggacaa aaacccaaat   60
tcacatcccc ctttttgggg ggggtttttt ccccccccc gggggggggg ttaaaaaaac  120
cttttttttt ctggaacaac cccttttggg ccccccccc cccaatttta aaatgaaagg  180
cccgcggggc ggggtaaaca aaaccccatc tggggccctt tgtatttggg ggaatgggaa  240
aaaaaatttg gcccgcaaag cacacaaaaa agaaaatttg ggggaaaaaa gggttttttc  300
caaaacaaaa acctcttttt tggccggggc ccacccaaaa aagggggggc gggccctttt  360
tttcttgggg ggccgaaaac ggggtgggtt ataaagaatt tgccgttccc tggggggggg  420
ggctcccccc                                     429

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<210> 31245

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069f09d1

<400> 31245

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accaaaaaac cttttttaga agggcccaac cctgggtgtt aaaaactttg acaggaaccg   60
ggcatgattc aaactgggtg actccccaaa ccctgggggg gggaaaccgc cccattttt  120
ttttacaaaa atttcttttt ttggggattt tttttgcaa acacatggga aatacctttt  180
catacatatt ccttaagggc cccaagggcc ctccgggcaa aggcaattag gggcaaactt  240
ggccttccca ttatgctcag gggggggaac atccatgtta acaggctcga ggtgggtttt  300
tttaagtctt tcttaaacac cataattttt tcccttgggg caattagttt t          351

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<210> 31246

<211> 62

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069f10a1

<400> 31246

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aaaaaaaaaa aaaaaaatta aaaaaattta aaaaaaaaa aaaaaaaaaa aaaaaaaaaa   60
ag                                                  62

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<210> 31247
 <211> 448
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069f12d1

<400> 31247

accaaagtaa acgcttagtc tcaaaaatca gtaaaagcag agttcaagaa gccatcgggg 60
 catggcattt ctttacatat attgaagaaa actagtagaa tggcaaataag taaaagctgt 120
 agaaccaagc aaattcaatt gctacttgta actagtccta ctagtttggtc aaccatatgg 180
 tgaaatcaag aagatttgca attgctttgg tctacctagc aatgcattca gctaccgaag 240
 aagaaagggg atatggcgcc ggagtttagtg attgatgatg gaaaatgcga gtggaggaat 300
 gtcattgtttg gaaaacgaat ttgagtatcc gcagctgatg gtattattgt tgaaggggaat 360
 cctgatgatg ctgcagtaga gaaggggtgga gcaagagatg ccctgccata aggaccttgg 420
 acttgccatg cccaatttgg cacggggag 448

<210> 31248
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069g01d1

<400> 31248

aaaaaaaa aaaccccccc cccgcttggg gcttttattt ttttggggga accaaaattt 60
 ttttttaagg tcccccggtt cacaccgggg gggaattttt taaccctttt tggggggaac 120
 gggggccccc cttttaaaac cccccccctt tttttggggg ggggggactc ggtctccctt 180
 ttttttcaa accgtggggg ttttgggggg gccccaaaaa aaaattttttt taaaaccttt 240
 tgttttttaa accccaccgg gcccgggggc cccccccccc tgtggttgcc cgggcaaaaa 300
 tttgaggggg gccccgcctt gttttggccc cccccccccc ccc 343

<210> 31249
 <211> 388
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069g04d1

<400> 31249

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 ataccctggc tttttggaaa aatcaaataa tgccattcct actgattgca aaaaaattgg 120
 cagtaatttt gataataaaa accaatctgt tattatacac ccacattatt gccacattta 180
 tgactagccc gtctttatcc ttaatgctct catattgcc aatcacaat aagtaattaa 240
 gccgcaactt tcttgatgg gactgaattg acaatggtag caaactcagg accctttaat 300
 gaagcccctc caacgagaaa tccatcaata tcttcttgct ttgccagttc agcactgggtg 360
 cctccattta cagaccctcc ataaataa 388

<210> 31250

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069h02d1

<400> 31250

ggttgcaaag aaaactaagt aaattgccca acatcattgc ataacgcggg gttcaggagt 60
 tctttgcaat aaaagtgccg tttaaacagg gctaattccat acccttcac acgaaactga 120
 aatgacaaac attgattcaa aacctgcctt aaaattaaca taatatcaca gaaagatcga 180
 gctatagtgt acaaaactga taacacactc cttaaagtga ctcaatctaa cttaaagaata 240
 gcctgggact tgtaaggat cactccctcg tacttcacct ggaaccactt catagcatcc 300
 tcctttgtga ctcggtgctg aattccaaca cgggacttgc atcttcggcg acgtccaaca 360
 cgatagccag gtcgctccag aacaacaaag aaatccattc cataaatacc agttgaagga 420
 tcatacttga ttcccaaata aatatgctcc tgaataccaa agc 463

<210> 31251

<211> 468

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070a01d1

<400> 31251

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 tattttcttt tggcagaatg tagcaatata ctctctgaca catttttgcg tgtccacaat 120
 tctttccttt gtatcatagt aaataaaatg tgtacgggct gaatcttcat tgatacaagc 180
 cctgtaatac atggagcaat attcagcaca atagcctgac ttgactatgt acagtatatt 240
 tgcacccaaa ttctcttata tacatctttg gttttggcca ggcgatgcat gattaggcct 300
 tggaaatctt ttgagggtata cttgaacaac cagaagacat ggagcaccaa tgatttaact 360
 tcaaatatth tttaatactg aacctaataa gatctgaacc acacgtatth ggtaaattgc 420
 tgcacatag ggggctaacc gcataagact cacttgacag cttttttg 468

<210> 31252
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a02d1
 <400> 31252

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 cagtaaacca ccttaagcac cacgaagtgc cttaaaaaac tatatataat acattgggaa 120
 cattagggct tccgatttaa acatgaacaa ccagcggata cataggaaat ccttagcagc 180
 taattaaata taaccagata ccgttattta gttgctggat ataatccaac tcttcacttg 240
 aaacatttag gagaatacta ctacagccat atgttgacca cctcattctt tgccatctgc 300
 tgctcgaaga gagcctagtt gaactggggc ttgagtctgc accactttgg aagaccata 360
 cactgatata ttaatacctt gcgccttctc cttctcgatc tgctcctt 408

<210> 31253
 <211> 276
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a04d1
 <400> 31253

gctgcaaaag caattcaata accatcagag ggtgaaaaga catggagcag ggcacaaaaa 60
 caaccatcaa ctaagggaag aatgaagcac actggaacat gacggattgg agcagaaccc 120

caaggcggat gaccgtgcaa taagctaaaa ccagcagctg gtcaggctct ggattgtacc 180
 ttagacaaat aaacaaaaca cgctggatgg gacgctaact gcaataggcc gttatgtagg 240
 agggaactac cggatgactc tgattgacac agaagg 276

<210> 31254
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a06d1
 <400> 31254

ctgcttcttc acattcataa ccaagagtgt atgtaatgca gaagcagctt caatcatcaa 60
 caccatcata taacccttgc ataagttcga gcggggaagc ccagattgga agatcaaaca 120
 aggcttggtt aagctgttct tctctcttaa cgcacactgt ttctgctatg tcgcataaat 180
 ttgacacatc acgaattatt gcttcctgcg cctccacctg caataggagg tcgtggagga 240
 gggagctacc ggcggaatcg gaggacgagg aagtagaagg aagagatagg gataggtttg 300
 gttggggatg ttgttgagtg gtccgatgtt gcat 334

<210> 31255
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a07d1
 <400> 31255

ctgcttcttc acattcataa ccaagagtgt atgtaatgca gtagcagctt caatcatcaa 60
 caccatcata taacccttgc ataagttcga gcggcgaagc ccagattgga agatcaaaca 120
 aggtttgttt aagctgttct tctctcttaa cgcacactgt ttctgctatg tcgcataaat 180
 ttgacacatc acgaattatt gcttcctgcg cctccacctg caataggagg tcgtggagga 240
 gggagctacc ggcggaatcg gaggacgagg aagtagaagg aagagatagg gataggtttg 300
 gttgggatgt tggttgagtgt ggccgttggt gcattgagcg caaggtgttc aacaaggttt 360
 cccaaagaag aatttctttc tcgtacttag atttgagctt caatag 406

<210> 31256
 <211> 236
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a09d1

<400> 31256

atcctatctt gtgggataaa gatcattgta tgacaaagga tggagaaaga catagaagga 60
 gacaagaaac cgccgcagct acaacaaacg gtccaaacca ggcaaaggaa aggaccccc 120
 aaggtgtgtc ccttacgaaa gaaaaaagac gtaccgagac cccaagcatg gaaaaagcca 180
 gaggcaatga cacggactgt gcccaaata accataaaga ctgctgaccc agaggg 236

<210> 31257
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a10d1

<400> 31257

aaaacagaca aatattgatg tggaaatatt aagaaacgtt ctgtttgaca ctaccaagga 60
 accttgaatc tctgttccaa ccagagtgtg tgagtattct gtggacaacc tccacttgca 120
 acacacagtt tagatgaaac tattttgaaa gaaatgatcc aacacattcc acctgccagg 180
 gtacatcctt gattccagca ttacgtaaca gatgctaaac ctgggacttg ggggaggtct 240
 tgtgtgtctc tgttgacacg cgtagatgca tcgtaccac tacatgtgtg tctgggaaga 300
 tccaggagtg aaacttttgg atgcataga cacccttat cttcgaaaca ttgattaagg 360
 catccttcat ctcatgctca tgcgcccttg gcactctttg gagcaaaaca tctgctgaat 420
 ttttta 426

<210> 31258
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070b01d1

<400> 31258

cccttaaaac ttagccagta ataattagaa ggtaaaatta catgatgcag ggcacataaa 60
 ctcatcctaaa ctaaggaaat aatttaacac actcaaacat aacggatatt attagaactc 120
 caaagccaaa gacctcacat taagcttaga ccaacagttc ataaagctca agacttcaca 180
 tcacagtaat agtctaaaca cactggaagg aagggtataat acgtcaaccc gttatttagt 240
 aggttaattat gggatgactt tgattcacac agcacgcact ggcattttga ttactcatca 300
 tcataactct tgtattggtg atgcttgtgg ngaagcttct ttctcccatc atcatcatct 360
 gagtcatctc catatttctt acgaccatag ccctcatgat catcatcatc agccttcctc 420
 tcataggaag gcttgcgga cccctcctcc tctcctgcc ggggtggacg cccc 474

<210> 31259
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b03d1
 <400> 31259

ctgaggggac tggaaacata aaaaccaatt ttgcatttaa taaatataaa cagaaactgg 60
 ctcaaaaatc cctgggagaa aagatgctta gactattgtc ctccctaactc gaggcaccta 120
 attcttggcc acaacatgaa aatcgattga aaggaaaaac caaaccaagc agaacttaca 180
 aagggtccat accatccgcc aattgcataa aaagtctggc ttccaagggg acctaacgga 240
 gaaacttata acatactcaa cttacaaatc cattcattaa actagatata tctattaaaa 300
 acccaaagct tcaaatacca aataagtcaa ccaaacttta ctgaaatatg gcacaggact 360
 ggggtgcatga agaacttgat caccatccag ctggacttga cccaacttta gaagcacttc 420
 cgat 424

<210> 31260
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b04d1
 <400> 31260

aaaaaaggcc actttcaatt tgggtggata acaggggaag aaccaggaa gtaggagtgt 60

tgagctcatt catttcagca ggggatacct tcagcagggg aacaaataca gaatcactat 120
 tcctattgaa aatatgagag aatctgcatg tttattggcc aactggattc ggggcagtct 180
 cctattcctt gccctcacac agttagggca tttgtaacca ttgaataaag atcggacagt 240
 gcggatctca aatacgtgtg ttatgtctaa tttactgaga tagatggccg atctttatgt 300
 aatgggtcca agttagtaat tgagtgaata tgtggaaaag acattgcaga tgatcctcat 360
 tatttggggg tcttgaaagg agaaaagtgg agaaaaaaa gaaggctatc tgagtctaata 420
 tccttgagga ggtctcaaag cttctcagct tattttttca ggtactatt 469

<210> 31261
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b08d1
 <400> 31261

agtgggaattg agactcgaat tatattagaa ttgggttgggt ttggtgtcgt cctccatata 60
 accagttttc cttaatgggtg aaaggagaca agaaaataaa agataaacia actttgttat 120
 gaggtacaaa agaacatggt cttaagatgc taaaagataa attaattggct gttgagtttt 180
 cactagtttt tagacatttc catctgtttt cttttcacaa gttttcggtt ccatagcttt 240
 gcaataaagg aacattctca gtagctggtg attcccagta atcaacttct tcctctatct 300
 cctctgttgc ttgccccac aacacagcat aaaaagccaa atg 343

<210> 31262
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b09d1
 <400> 31262

agtgggaattg agactcgaat tatattagaa ttgggttgggt ttggtgtcgt cctccatata 60
 accagttttc cttaatgggtg aaaggagact agaaaataaa agataaacia actttgttat 120
 gaggtacaaa agaacatggt cttaagatgc taaaagataa attaattggct gttgagtttt 180
 cactagctta tagacatttc catctgtttt cttttcacaa gttttcggtt ccatagcttt 240

gcaataaagg aacatttctca gtagctggtg attccgagta atcaacttct tcctctatct 300
 cctctgttgc tttgccccac aacacagcat aaaagccaaa tgatactatt gccgctccaa 360
 ctatactttc aacatgaaga gagtcaccaa cgaagatgat caccagggc ataagaaaaa 420
 aaca 424

<210> 31263
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070b11d1

<400> 31263

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtgcccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgct ctctacgga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 gtcaatgttc catatctctc gggcatattc atgaatcgtg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360
 atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttccctacaa ggaaataa 418

<210> 31264
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070b12d1

<400> 31264

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgct ctctacgga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 ttcaatgttc catatctctc gggcatattc atgaatcgtg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360

atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttcctacaa ggaaat 416

<210> 31265
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c01d1

<400> 31265

aatattagag agtttgagat cattcagaaa gttatttagt atttcacttg gacaactcaa 60
 ccactgtaga tatcaccac aagtcacaat gtgggggatac cattgtacaa gtccatgaaa 120
 atggaagaat tttattcttt aggacagaga cagactacca aggttttcat tgcgcactta 180
 agacttcgat ttcaaattcc aagacagagt tgggccgcat tccccagca ggaaagccac 240
 cagcaccata agcataatcc ggagagcacc ggagacgagc aacttcacca atttgcattg 300
 caagcacacc ttcattccat cctttgataa cagaaccttg gccgattttg aaagtgaatg 360
 ggttctggcc aggatccttt gtgctccaga atttctgaga aaggtcaccg ttcttcccga 420
 aaccagtga gtgaacggtt acgttctgac cgggaattg 459

<210> 31266
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c02d1

<400> 31266

cggagggtac tgcaaacata aaaaccaatt ttgcatataa taaatataaa cagaaactga 60
 ctcaaaaatc cctgggagaa aagatgctta gactatcgtc ctcttaactc gaggcaccta 120
 attcttggcc acaacatgaa aatcgaataa aaggaaaaac caaaccaagc agaactaca 180
 aaggccaat accatccgcc aattgcataa aaagtctggc ttccaagggg acctaacggg 240
 gaaacttata acatactcaa cttacaaatc cattcattaa actagatata tctattaaaa 300
 acccaaagct tcaaatacca aataagtcaa ccaaacttta ctgaaatatg gcacaggact 360
 ggttgcatga agaacttgat caccatccag cttgacttga cccaacttta gaagcacttc 420
 cgatga 426

<210> 31267
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c03d1

<400> 31267

cccttgaaag gtgtaattgc ttcttcagaa atagatttat acaaaggtag ttgcaatata 60
 tatttgccaa actaaaaatg taaagaccct tcttcccaat cctaggtagt ggcccaattg 120
 tatttacaaa ggcgggacaa aatatgtata tacaagtcca atcatatagc ataatgtaac 180
 aataatcata ctttgggtctt tactggggca cattacagga attattatgc actgaaaccc 240
 ctttgcagag aactccaagg attggaagga atagagacac aagcttgtgc agaggcctca 300
 gccatttgc cttcttttat ccctacattg cagatgtttg caaaggacct catatgtttc 360
 atgccatact gagacaagga tccacaatgt gtctcaaaag tcctcaccat ggtttttaa 418

<210> 31268
 <211> 300
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c05d1

<400> 31268

aaaaaatggc cactttcaat ttgggtgtat aacacgggaa aaaccctgga agtcggagtg 60
 gtgagctcat tcatttcagc aggggattcc ttcacctggg ggacaaatac agaataccta 120
 ttctatgga aaatctgaga aaatccgcat gtttattgtc caactggatt gggggcagtc 180
 ttctattgct tgccctcaca cagctagtgc attggaaacc attggataaa gatcggacag 240
 cccgatctg aaaaccccggt tctatgtcta atttactgag atagatgtcc gatctttatg 300

<210> 31269
 <211> 335
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c08d1

<400> 31269

gaatccaaaa caatttgata tttattacta taagacaggg ggtggattac ctccgccgaa 60
 ttccccttaa agcatatata ttacagaact gcaagcttat tttgactatg aacgcaccct 120
 ggaagagcgt atctacgcga aaatctattt gattctctgc tccccggaag aaagccatgc 180
 aatgatcatc ccagccacgt ggcactgggt cgatatactc cactatggca ctccggactgg 240
 ttcaatgatc catactctct cggccatatg agagacaccc gcggcaactg ctaaaataga 300
 ctgaccctgg tgtgtagaat attgacatgg atata 335

<210> 31270
 <211> 201
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c09d1

<400> 31270

agtgaattg agactcgtat ttttttataa aagatatatg aaggatgact ttattctatc 60
 acacttttat tttattggtg cttggaaaca ctcatTTTTat ttgacaccaa acatgggggg 120
 ggagatctat gggagcataa aattcttagg catcccgtga gcttcttggc tgtggccgca 180
 aaactctttc cctgacggaa a 201

<210> 31271
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c11d1

<400> 31271

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 ttcaatgttc catatctctc gggcatattc atgaatcggg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360
 atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttccctacaa ggaaataatc 420

tgctcgacca aaaccttcac ttccttctaa ggatcccac aattcgatc agttggtaag 480
atccaaaaac gccacttggtg acaa 504

<210> 31272
<211> 270
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070c12d1

<400> 31272

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
ttcaatgttc catatctctc gggcatatc 270

<210> 31273
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070d01d1

<400> 31273

atcaaacatc caatattaca acattgctag tcaaaatcaa ctcatgaatc atattctcaa 60
caggtcttat acacaagcac actgttacca gcaactgcaca aaaatacata taaatttttt 120
aatacattag ctatgctcct aggtttttaa ttgccgggac aatgcatttc tataataaag 180
tgagaccttc agacttataa aactcagaag cctgaagttt attaaaattt ggaagtataa 240
agtaaacaag agggttaagta ctaacagtca taaatccttc tctattcaca gaaacacctc 300
taaagctaga ggaccaaagc cacccccaga aactatagaa cacaacccaa ttgattttgg 360
tcagaaacac aaagttgaat ctgccctaa aatttcccat accagattca gagcaatcct 420
aaacacaatt ggaaactaat ccatcagcca acacaaaaga gactggcact cctgacacct 480
cttgtcaaca atttatgtta atccac 506

<210> 31274

<211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d03d1

<400> 31274

gcaaagtgaa aaggtatcct aaatatattg ggccaataga ggctacaact caattaaaaa 60
 ataaaaagat tttttttttg gtacaaatta aaccttttaa ataaggaata taactaaaaa 120
 aataaaggga agagatagag agacagggtt tgcttttgaa tgtaacattg tacaagataa 180
 ctaagttaga ccaaaaaatg ccaagaggca taaaccttaa gcataatagc tttgtagctt 240
 tcttcatcaa taaattaaca taggaaacct taggtaagtg acaattgtgc aaaactcctt 300
 taaccaaacc cctttgtgcc acggttgcaa attgcaatga ctaattgagc caaaatacca 360
 tgtgaaattc tgtgaagatc gtatagagaa atgtacttgg cagccaaaaa gccagccagt 420
 tcttcaactt tgatttagtt gattattgag ttgatgtgga aataagtaac ccaatact 478

<210> 31275
 <211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d04d1

<400> 31275

gaaacaagaa atcttattta ttcccataat atgcaccata tcatggccct tcccagagca 60
 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatatttctt gcatcaaaag 120
 agtctcacac cacacattaa agacagttaa acagccaaca agaggattca agggttttaa 180
 agggccttga tgatctcttc agcactggag atgggtgaact ctctccact ttcaacattc 240
 gcaaccttca ccttgaggtc ttccaccagc agagcaaacc tctttgagcg gacgccgaga 300
 cccttgtcag tgaggtaag ctcaagacca agggcattgg tgtatttggc tgcaccatca 360
 gcaaggaact taacatgctt gttctctggg aatgttttgg cccatgagtt catcacaat 420
 ggatcattca cactgata 438

<210> 31276
 <211> 426
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070d05d1

<400> 31276

gaaacaagaa atcttatttta tttccataat atgcaccata tcatggccct tcccagagca 60
 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatattcttg catcaaaaga 120
 gtctcacacc acacattaaa gacagttaaa cagccaacaa gaggattcaa gggttttaaa 180
 gggccttgat gatctcttca gcactggaga tgggtgaactc tcttcactt tcaacattcg 240
 caaccttcac cttgaggtct tccaccagca gagcaaacct ctttgagcgg acgccgagac 300
 ccttgtcagt gagggtcaagc tcaagaccaa gggcattggg gtatttggct gcaccatcag 360
 caaggaactt aacatgcttn gttctctggg aatgtttttg gcccatgagt tcatcacaaa 420
 tggatc 426

<210> 31277
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d06d1

<400> 31277

aggaaaggaa gatccatcat agagatattt gatgaaattt gaaagataac aatcccaaca 60
 aagcggctgg cttattgtaa acttgcttca ctatatggga gtgaaaaata aattgtacat 120
 tctataataa tatcacaagc aggaaaaagc tactgcatct acaacaaaag gcaagacaat 180
 attaaaaatt aggaccttga ttcaacttat caattcacca cctcaaactt ccgcaacata 240
 tcacaatggg gtgtttcccg gatatacccc cattggcgac gctgcaactc gaaatgacaa 300
 ttctggcgga gaatgctgaa gtactccctc tctaccctct ctttaatttt tgatcgttca 360
 tcac 364

<210> 31278
 <211> 448
 <212> DNA
 <213> Glycine max.

<223> Clone ID: jC-gmst02400070d07d1

<400> 31278

agtaaaggaa gatccatcat agagatatattt ggtgaaattt gaaagaaaac aatcccaaca 60
 aagcgggtgg cttattgtaa acttgcttca ctatatggga gtgaaaaatc aattgcccac 120
 tctataatca tatcacaagc aggaaaaagc tactgtgtct acaacaaaag gcgagacaat 180
 gttaaaaatt aggaccttga ttcaacttat caattcacca cctcaaactt gcgcaacata 240
 tgacaatggg gtgtttcccg gatatacccc cattggcgac gctgcaactc gaaatgacaa 300
 ttctggcgga gaatgctgaa gtactccctc tctaccctct cttcaatttt tgatcgatca 360
 tcactcccca acggatactc ctgaacaaaag tttgtagact tgacataata ggtaacaccc 420
 ttgggtgtgg taaaccgatg ttcataag 448

<210> 31279

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070d08d1

<400> 31279

atcgaaaaaa tatgaaggat tactttattc tctcacactt ttattttatt tttgcttcta 60
 acatctcatt ttatttgaca caaaatatgg ggggggagat atatggagga taaaaatcat 120
 tgagatccct tgagcttctt tgcaatgcc gcaaaggact ttcctgatg gaaagcttgg 180
 gccaatcca attcactagg ctgccttgag ccactctcag cataagttcc tgcaccatat 240
 ggggagccac ctttcacctt ctccaactca aacatgccac cgccaaatgt gtatccaatg 300
 gggacaaaaga tcaatccatg gggaacaagc tgagtaatag atgtcaacgg ggtagtttct 360
 tggcctctc cttgagaac 379

<210> 31280

<211> 343

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070d10d1

<400> 31280

gaagccaaaa caatttgata tttattacta taagacaaag gtttgagttc ctccgccgaa 60

gtacccataa aaaatatata ttacagaact ggatgcttat ttgactatg aacgcaccct 120
 taaagcgcgt ttcttcagcg aagatatatt ttattctctg ctaccaggaa gaaagccatg 180
 cagtgatcat cacagcctgg tggcgccggg aggatatact cctctatggc aggaggaccg 240
 gttcaatggt ccatatctct cgggcgtatt aatgaatcgc gcggacactg ataaacttgt 300
 atgaacctgc tgtggagaat attgacattc tcgtccattt agt 343

<210> 31281
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d11d1

<400> 31281

aaatccacaa agccctaaaa atcattacaa tttgatagca gttcaggtac ataaacagag 60
 tttctcaca ggaacgagca cgatcgggat cgatatataa tagtaatagt aatatacaca 120
 atcatagtaa aacaaaagga aaaagaagaa aaaggagaac tcaccgaaag aggcgctgg 180
 attgagagcg cgtggttgtc agcgcttgga ggagttgtta tcgtaatcga tgatctcgga 240
 atcggtgacg gatctggagt gctggacgat ggagcggccg atagagttga tccaatcctc 300
 cttctccttc tcggagtcgg cgatgaagta catggtgtcg gagcgctgg agagctcgaa 360
 ggcgttgggc ttgttgagga tgtcttcggc gcctttgacg gtgaggcacg tggcgacggg 420
 gaccacgccg cgtggacgag acgcacgcgt gacggcggag tccttg 466

<210> 31282
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e03d1

<400> 31282

cagaagaaaa cataaacatc aagataataa attgcttgtc ccgataaagt aatagtacat 60
 gtcaacatgg atgaaataaa atgtgaatac acagtgccca gcatggtagg ggaaatacac 120
 ctacatagag gtaagtagca ctattccaaa cccaaaggga ttccaccag ttccaatagt 180
 caccaaaatt cataccataa aaatcttcaa atgcaccttt cagtaaaaca aatgcaactg 240

gaggaacaca ataaaaccta aagcaatatt gcaagaggcc cttagtaagg tactccagct 300
 cctagcttga atatcaagtt tcaatgggtct agccatcaga caaatcgga caataagtaa 360
 agccccaatc tctgctgtag caaagttaat gacagacatg agagacaaac cgatgaatgc 420
 agttgatata gttacagact ttaagctagc ccacttggtt ttctcatgta gagatgcagc 480
 agcttcaaaa attgggggac c 501

<210> 31283
 <211> 420
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e05d1

<400> 31283

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 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatattcttg catcaaaaga 120
 gtctcacacc acacattaaa gacagttaaa cagccaacaa gaggattcaa gggttttaaa 180
 gggccttgat gatctcttca gcaactggaga tggatgaactc ttctccactt tcaacattcg 240
 caaccttcac cttgaggtct tccaccagca gagcaaacct ctttgagcgg acgccgagac 300
 ccttgtcagt gaggtcaagc tcaagaccaa aggcatgggt gtatttggt gcaccatcag 360
 caaggaactt aacatgctcg ttctctggga atgttttggc ccatgagttc atcacaatg 420

<210> 31284
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e08d1

<400> 31284

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 taatcatgtc ataatttaca tccattcaat ggatgaagac aatgagattc acatggattt 120
 gcaaatgaaa aggactccaa atacataaat aacaactgat accagggtgc gcatacacia 180
 acaagagcct aacccttgt attgaaagg atggctcgaa tgactatgtg gggatgcaca 240
 acatccaggg caacttcaat gaaaggttca acccacaaaa ttcatgggtt atcccatgca 300

002200-ETTES60

tgggctctgt tgtaaaggat ggcagctgcg aaactcctag ctgggataat gacaattcct 360

gggaagggaa tggtagccgg gtggacctag aacacatcct atccgatggg aagtggg 417

<210> 31285
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e09d1

<400> 31285

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taatcatgtc ataatttaca tccatacaat ggattaaaac aaaaagattc acatgaattt 120

ccaaatgaag aaggactcca gatacataaa taacaactaa tacaagcaag cacatacaaa 180

aacaagagcc taagcccttg tcttgaaagg gatggctcgg atgactatct ggtgatacac 240

agcagcaagg gcagctccaa tgaaagggtcc aaccagaaa atccattggt catcccatgc 300

atggtctctg ttgtagatga tggcagctcc gagactccta gctgggttaa tgccagttcc 360

tgtgatggga atggtagcca agtggaccaa gaacacagca aatccgtggg aagtggag 418

<210> 31286
<211> 322
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e10d1

<400> 31286

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catgtaataa attacatcca tacaatggct cataacataa acaccacat tattgtgcaa 120

agggtgaaag acccccacat acacttgtaa caactcatac cagcaagcac attccaaaac 180

aagagcctaa ccccttgtct tgaaagggtat ggctcagatc actatccggt gatacacaac 240

accagggca agtccaatga aagggtccaga gccacaaaat ccattgggta tcccatgcat 300

agtctatggt gtagaggatg gc 322

<210> 31287
<211> 389

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e11d1

<400> 31287

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tgggaaagaa agaaatgaaa agaaaaatgt tcctcatggt gtatccgaaa caaccacta 120
ggatccaata tggatacatg gctaacaatgt acatttgtcc actgcctttg ccctttgagt 180
ggtggttgga aaagaatatg tctaattata cattttcact ttcaggatga ccattgatca 240
ggtcaaggga tgaaagtatg tagtcatgga cttccggaac ctttgtttgt attgatcagg 300
agaaactttg gggggagcag gatttttttg accctcaagt atccctgctg ccttcacca 360
tgtctccaca tgcttgtgcc atgtgtatt 389

<210> 31288
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070f01d1

<400> 31288

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ttcattttat ggaagaatat ccaaagccta atattttcag aataaacaga ttacacattg 120
ccaaaattaa aataaaaata aaatacaccc attacaacaa aacagcaata ttaaacaagt 180
gcagcagagc tcagcgggat aagtgtctc ttaactcttt ctacagctgc ctgtagggta 240
gtaagggatt ctgcataaga gatgcggatg caagtgtcat ctccaaatgc actccctggc 300
accagggcta cctggcccac atccagtaga tatcgacaga gggactcaga atcctcaatt 360
ttaccgaatc cttcagcttc tcttcataa tagaagctga aatcaaggaa tagataaaat 420
gtccctggg gttcagatat cttgacacca tctatttttc taaaactttt t 471

<210> 31289
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070f02d1

<400> 31289

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aatggttctt tttgaagtct gctgggttatt caatcatata tccttttgac aaccttttga 120
ttgtcacaga agccctatct tatctatgat gattagtcag cagtccaact ctgctcaaca 180
atctcacgta ctcttctggt gtattcacgc ttgttttcac tgaacatccg agcagcttca 240
gaatttgctg gtgaatttgg gtttgatca cacagcaatg actggattga ggtaagaatt 300
gcagctacgt cataaatagg gctccactga ttctgtaaaa tgtccaagca tatactgcca 360
tccgataaat gttaggatga aacattcgag aaacaaaacg c 401

<210> 31290

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070f04d1

<400> 31290

aaaattaaac catatatttt tattcattat tttttacaaa aatacagcat agaaaactca 60
aataacagaa cagaaccccc cccccccca aaaaaaattt attaaatatg aaacaagatc 120
atatacccc atctgtgcca gataaataaa aaaaattata tataatacag atattatata 180
aaaactctca gagatttttt ttatcctgcc acaagttaaa ttatatattt ctttatagga 240
aagcccattt cctgttcaag agaaaaggaa tgagagattt gaggtatgtc attattgcct 300
tgtcttctgc aaccttggtc caatcatctt gagctcaaatt ttcttgatta cccagcagt 360
gtccctcatt gtgggtgtcc atcacataag gaaattttgt ctgggtgact tgtgttgggg 420
tgacgagtat tttacat 437

<210> 31291

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070f05d1

<400> 31291

aaaattaaac catatatttt tattcattat tttttacaaa aatacagcat agaaaactca 60

aataacagaa cagaaccccc cccccccca aaaaaattt attaaatatg aaacaagatc 120
atatgcccc atctgtgcca gataaataaa aaaaattata tataatacag atattatata 180
aaaactctca gagatttttt ttatcctgcc acaagttaaa ttatatattt ctttatagga 240
aagcccatth cctgttcaag agaaaaggaa tgagagattt gaggtatgtc attattgcct 300
tgtcttctgc aaccttggtc caatcatctt gagctcaaatt ttcttgatta cccagcagt 360
gtccctcatt gtgggtgtcca tcacataagg aattttgttc tgggtgactt gtgttggtgt 420
gacgagtatt ttacatgttt ctctcctttc tgatatgggt ccatgatagt ggaaagtatt 480
tgatcctac 489

<210> 31292
<211> 358
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400070f06d1
<400> 31292

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agcacaaaacc ggatctaccc aactgaaaa aaagaggcca ataaaaaat tcggaaaaca 120
gacaaacaac aaatacaaaa cctataataa aaaaaagtac acagtggcct cctacaaggg 180
gaagatcgga ttttaaaatt gggcctggcc agagggttaa aaaataacaa tttaaagttt 240
cggggcatat ttgcatgggg tgtttggggg ggatactttt acaaatttgg tatgccaagc 300
ccacttgcat tccatgctta gaaagctgaa actcggcctt tattgaaagt ctttgttt 358

<210> 31293
<211> 487
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400070f07d1
<400> 31293

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gaaacaaaat agaaggaggg gaggaggaga agcacacacg gagtaagtaa gtgacatgaa 120
acaaataata gatatcgtaa tggcaacgct caaaaaacta ccagcaaaga acggtggaat 180

gaatggcctt aggccttctc ccacttgagg ggcttgacca cttcccatgt gaagtcaggg 240
 tcctctctgc caaagtgtcc ataagcagca gtcttcaaga acctgttatt cccaccctc 300
 ttgagatcaa ggttgatgga gatcataccg ggcctgaaat caaagttctc cttcacaatg 360
 ttgagaatct ccttatatgg atcttcccgg tgccataggt gtcaacaaag acagacaaag 420
 gcttcggcac accaatggca taagacactt gcacaatgca ctttctgggt agtccacttg 480
 ccacaat 487

<210> 31294
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f08d1

<400> 31294

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 taatcatgtc ataataataca tgcatagaat ggaataaaac agaaagattc aactgaatt 120
 ttgcaaagga agaataactcc ggatacatta gtgacaacta ataccagcaa gcacatacaa 180
 aaacatgagc ctaagtcttt gtgttgaaag ggatgggtgg gatgactatc tgggtgatact 240
 cagcacctag ggctgctcca atgaaaggtc caaccagaa aaaccattgg tcatcccatg 300
 catggcctat gttgtatgatg atggcagcta ttagactcct agctggggta atgccagttt 360
 ctgtgatggg aatgggtattc aagtggacca agaacac 397

<210> 31295
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f09d1

<400> 31295

aactagccaa tagcttttgt aggatttacg ctgtgccatt gataccttat gttatacaaa 60
 ttatttcatg tattacacat gctgtaagca acgaactttt ggggaatggg gcagatacag 120
 gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat 180
 gtggaagaaa ctaggagtga ccccttacac ctgcttacct ttacacctat tcataattta 240

acattacata tttatatatt tagacgaata aatgtagcgc cataccttat tccccacagg 300
 ttacaaagaa tattacaagc agcacttgct ttcctttcct ttgctgacca aacttcacta 360
 tgc 363

<210> 31296
 <211> 252
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f10d1

<400> 31296

gttaacatat agaataaaac tagccattca ttctgagtgg atcaacgccg agccagggac 60
 tcctcatgtc atacaaaaca ttcattcaat ggcacatgcc gaaaagaacc acacttttgg 120
 ggaatggggc gaaatactgg ggatacactt gtgacgactc attccagcaa gctcactcaa 180
 caacatgagc ctaactcttt gtgttgaaag ggatgggtgg cctgactatc tgggtgttcca 240
 cagcacctag gg 252

<210> 31297
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g01d1

<400> 31297

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 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120
 agagtggggt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatctg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt ttcatactct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgcgac 420
 cccatgaaag acgcacattt tgtccacca aagcgtccca ttcacaccg agggcctctt 480
 agcacagtct 490

<210> 31298
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g02d1

<400> 31298

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 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120
 agagtggggtt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatattg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt ttcataatcct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgcgac 420
 cccatgaaag acgcacattt t 441

<210> 31299
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g03d1

<400> 31299

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagttgc 120
 agagtggggtt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatattg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt tttatatacct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa gact 414

<210> 31300
 <211> 92

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g04d1

<400> 31300

atataacaca caaattcggc cgttataatt aaaaatgccc cacagggccc tctaccccc 60

ctataaaatt ttaatacaac tgccgcaaaa cc 92

<210> 31301
 <211> 283
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g05d1

<400> 31301

aaaacaagct agttgggttc ttttcataaa tcatgcccga aaggggtttc tatgaatcat 60

atcatatttc aatacaactg ccgtaaaacc taaagccaga tggggatcct tgtgaaaaca 120

cttaataaaa tccgggcagt ttgtgcaagt taaaattttg gaacgaccga ttgattcgga 180

aaaactaaaa ccttttattg ggaccaata actttaaca taacaggtac ttctagagcc 240

ataatcgtca agatgctgat agatattcca cccaaaagaa cct 283

<210> 31302
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g06d1

<400> 31302

aagaataatt tttgtatcac gttgaattga tcatgtaaaa aattacaaat gaacatagaa 60

gaaacaaaat agaaggaggg gaggaggaga agcacacacg gagtaagtaa gtgacatgaa 120

acaaataata gatatcgtaa tggcaacgct caaaaaacta ccagcaaaga acggtggaat 180

gaatggcctt aggccttctc ccacttgagg ggcttgacca cttcccatgt gaagtcaggg 240

tcctctctgc caaagtgtcc ataagcagca gtcttcaaga acctgttatt tccaccctc 300

ttgagatcaa gggtgatgga gatcataccg ggctgaaat caaagttctc cttcacaatg 360

ttgagaatct ccttatcatg gatcttgccg gtgccatagg tgtcaacaaa gacagacaaa 420

ggctcgggca caccaatggc ataagacact tgcacaatgc a

461

<210> 31303
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g07d1

<400> 31303

gaaacccaaa aataacttga tcttgcttac atgatctaac atcagggtcca gttttactat 60
 aacgcacata ataaccagtt tgcattgttt tggggcaggg gaggggttgt gaggggaaat 120
 agactaacgc gacacgtttt aaactgcctt tgcgccagga tgaggagacc aggggtgacta 180
 cgggccatgg aaaccatatg caatatgcag ggggcctaaa gtgaatcgct cagctcctta 240
 tctggcatac atttgaggac atacacctgc ggaactactc tctcaggacc gaccctgaga 300
 cgctagctaa cgatgaaaat ctaccaaccc acggcgatgg cgtatgac 348

<210> 31304
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070g09d1

<400> 31304

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 ttatttcattg tattacacat gctgtaagca acgaactttt ggggaatggg gcagatacag 120
 gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat 180
 gtggaagaaa ctaggagtga ccccttacac ctgcttacct ttacacctat tcataattta 240
 acattacata tttatatatt tagacgaata aatgtagcgc cataccttat tccccacagg 300
 ttacaaagaa tattacaagc agcacttgct ttcctttcct ttgctgacca aacttcacta 360
 tgctatttat cgncgggatac cg 382

<210> 31305
 <211> 363
 <212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmst02400070g10d1
 <400> 31305

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 ttatttcatg tattacacat gctgtaagca acgaactttt ggggaatggg gcaaatacag 120
 gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat 180
 gtggaagaaa ctaggagtga ccccttacac ctggttacct ttacacctat tcataattta 240
 acattacata tttatatatt tagacgaata aatgtggcgc cataccttat tccccacagg 300
 ttacaaagaa tattacaagc aggacttgct ttcctttcct ttgctgacca aacttcacta 360
 tgc 363

<210> 31306
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070g11d1
 <400> 31306

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 ttggatactt ccaacatcca ataagttttt ggcaagcaat cttgcatggc caggaaggga 180
 aaaacgtgaa tcttctttat tgaaaccaa aaataaaaaa tccatgtttc acttcttcaa 240
 cagcatggca ctgcattgtg ccattatctt tgatgccctt gtaatggcat cagtcataata 300
 gaaattctca actacagtcc cgaatggggg tgggtgtccac cttctcagag aagggttggtc 360
 tgagtgaaga tggtaatgtg gcaggctctc tctcatccat tttacaaggt ttgggggtac 420
 agtactgatt cgagcacgaa cggccccaat tgtatcatag ggcaaacgca ctcttgccac 480
 ctcagataga gctcgaatta tcttccaatc atctctggag tcaccaactg ttggaact 538

<210> 31307
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g12d1

<400> 31307

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ttggatactt ccaacatcca ataagttttt ggcaagcaat cttgcatggc caggaaggga  180
aaaacgtgaa tcttctttat tgaaacaaaa aaataaaaaa tccatgtttc acttcttcaa  240
cagcatggca ctgcattgtg ccattatctt tgatgccctt gtaatggcat cagtcataata  300
gaaattctca actacagtcc cgaatggggg ggtgtccacc ttctcagaga aggttgggtct  360
gagtgaagat ggtaatgtgg caggctctct ctcatccatt ttacaagggt tggggctaca  420
gtactgattc gagca                                                    435

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<210> 31308

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h01d1

<400> 31308

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tcttgacttc aatatagaag ttggtgggaa caatgtgaga aaatttcaag atttatctca  120
actatcatatc gtgtttggat gaaaattgag ttattaatgc aaggcggttct ccttgtactt  180
gatgtgggta ggacaatggc atagaaatcc attacaactt ccagattata agaaaactgg  240
ttaaggggga gtattgggaa aggtcaaagg tgaaacctca aagtaaatta ggacggctta  300
tagtatTTTTg ttggtacaaa tggcatcttt gtaacaactc cttcattaga ctttcctcga  360
ataataatct ctactttggt gcctgctttg tgcaatcctg atttcacata tccaatggct  420
atgttcttct tgaggcaagg actgaatccg cccctgtga cttccc                    466

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<210> 31309

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400070h03d1

<400> 31309

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 agagttccaa ttatagctaa aagtattagc taatttaagc aatcatacaa acccaagtta 120
 cacaaaagaa gagaatactt ctagcaagca ttctgctatt acaacattga caagaaagga 180
 taagcatctt tctccaagaa ccgccatact cagcaggaaa tcaccagaca agaccaaaaa 240
 ttttcaaatg tctcatgcct tgctggcaat gttgtagaa agccagtcca aaccctcata 300
 gagaccctct ccagaagttg cacaagtgtt ttggatatac cagtggcggt gacggagtga 360
 atgaagtcca agcttgtcag ttatttctgc agcattcatt gcattaggaa agatctntgc 420
 ttgttgga aaacaagcaa aacagcatct ctaagttcat cctcattcaa catcctgtgc 480
 aactcatccc ttgcctcaac cactcgatcc ctatcatt 518

<210> 31310

<211> 309

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h04d1

<400> 31310

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 aaaagccttt tatttttttg aaaaaacatc ttcacattgg cgcaggttca aatgaaaatc 120
 aaatactcct attccaacaa atcgggtatg ttaaacatgt ggaacaaaac ttagcgggggt 180
 aaaagctata ttaactcttt gtacaccaga cagtcgggta ctaggggatt cttcatggga 240
 catgaggttg caagtgtgtt attaaaatgc actccctggc acccgggcta ccaggggccc 300
 atgccgaaa 309

<210> 31311

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h06d1

<400> 31311

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agcacataat aaccagcatg catttttttg gggcaggga ggggttgaga ggggaataaa 120
 agaaagtgag aagttttaat ttacctttgc accagggttt tcagaccact atgacttcct 180
 tttatggaat ccatatgcaa tatacagggt accttaagt aattgtccag gtccttatct 240
 ggaatacata tcataacata aatctctgaa aattctttca caagaacgat cataagctga 300
 gacctcacca ttaaaattaa ccaattcacc aggatggcat atgactatta aactccagt 360
 aagattgaag ttcacaggaa tgaaatatat aatccttttg aaacaaaaat acttttt 417

<210> 31312
 <211> 202
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h07d1

<400> 31312
 aataattggt caataaaccg ccacaattac acaaaaagaa actaaaaaag aaaaagaaaa 60
 aattttccca cgcgtgttcc ccaccaaaga aaaaaaacat aaaggaggaca gaaataataa 120
 aaaaaccata agaaaaggaa tcgatgccgc cacaggctaa aacatttgcg gctggagagg 180
 aaaaccagg gacccccag ga 202

<210> 31313
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h09d1

<400> 31313
 ccaccggga atcatcaatt atacattaat taaaaaatg aaaccacca atgagaagca 60
 aaagtaaaaa aacttggtcac tgactatttt tttgtttctt cctctgcagt aaaaaagatc 120
 aggaaataga taaatggggg gaaccctaac aaaaagaaaa taaacttgta ttttatatat 180
 cttaagaaag taaaggggt gttcagacac ggaagttctt tccagtgaat gtttgaccaa 240
 attgccaatt tgatggaaca atgttccaag agggggaaga ggcacggtcg ctggcgggtga 300
 ctctgaagga caaagcctga ccacacaaa cgggggttga ctgccagttc tgtccccagt 360
 ttttgctcat tggcatccac cccgt 385

<210> 31314
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h10d1

<400> 31314

cacccgggaa tcatcaatta tacattaatt aaaaaaatga aaccaccaa tgagaagcaa 60
 aagtaaaaaa acttgtcact gactatTTTT ttgtttcttc ctctgcagta aaaaagatca 120
 gggaaataga taaatggggg gaacccaaac aaaaagaaaa taaacttggt ttttatatat 180
 cttaagaaag taaagggggt gttcaaacac ggaagttctt tccagggaaa gtttgaccaa 240
 attgccaat tgatggaaca atgttccaag agggggaaga gcgacggtcg ctggcggtga 300
 ctctgaagga caaagcctga cccacaaaaa cgggcgtttg act 343

<210> 31315
 <211> 520
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h11d1

<400> 31315

ctgagatgtg aggcctttca tatacatata ggggaattct caaatacagc attagcaaatt 60
 gcaaatggca agtttctttc atattgatgg ctagctctct aataaaagag cccaaataaa 120
 atcaatgtat catcactctt cctcattgt tctggccctg acatatttta aacactcaaa 180
 aattatgtaa gcttgaaatg tccatctcca cacaacaaca acaacaaca caacatcaaa 240
 ggaggcattc caatttccaa ccttggtttc aatcaatgat tgagccagca ataaagaaga 300
 ggatcacttc ccatcatcga tgctgcttgc cagtattcaa gggagaagcc ctcatgctct 360
 tggattgtgt gtatgtgac tgtggagttc catctttctt ctttcgctc ccttggtgag 420
 ataagcgaga gtgattagac aagattgcac ggatcattata atcctgcaat ggagtcagag 480
 ccttcataac ttcattcatg ttaggacggg atttggggtc 520

<210> 31316
 <211> 435

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h12d1

<400> 31316

agacgagtaa accttcacaa tcagttggat aactcaaatt gtacatgaca acagttctaa 60
 aaagtgggtgc ttccacaccg catattacaa atggaacaga taaatcctag ctttaattta 120
 ttggatactt ccaacatcca ataagttttt ggccagcaat cttgcatggc caggaaggga 180
 aaaacgtgaa tcttctttat tgaaaccaa aaataaaaaa tccatgtttc acttcttcaa 240
 cagcatggca ctgcattgtg ccattatctt tgatgccctt gttatggcat cagtcataata 300
 gaaattctca actacagtcc cgaatggggg ggtgtccacc ttctcagaaa ggttgggtctg 360
 agtgaagatg gtaatgtggc aggctctctc tcattcattt tcacaagggt tgggggtaca 420
 gtactgattc gagca 435

<210> 31317
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071a01d1

<400> 31317

agaaatagcc aagaagaatt ttatttgaaa aaaaacatag acatgttttag aagcagcata 60
 aatagaagca atagccttgc aatcaacgag ttccccgaa gatgggttccg tgagaggagt 120
 gaatgtggta ttggttgatg gaagattgga gagtgttcca gcaggagaag ggaagaagaa 180
 accggtgcgg tggagataac gaatggcttg aaggatgtaa cgacagcgcg tggcgtcgctc 240
 cgaggagggt cttgaacgga ggctgggtgt gttgagggga catggattca gatctgaatg 300
 tcgagcagat ctcaaacttc gtcgatcggt cagccttctc cgccaactac ggttgggtggg 360
 ctccacgaac cttggcagca gccagcagct tcacggata tggatttgga gcttctgcgc 420
 ttcaaaacga cgtcgtcatc gaagtgtcgt aggtaggcat g 461

<210> 31318
 <211> 519
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071a04d1

<400> 31318

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aaaatgatac agtcattcat aggcaaaca atttacaca gctaatagac accattgttg 60
ccaattcctc cttccggtaa tacaagtaat taagcaatca aaagacaatg gcagaagaaa 120
ctaaggaaga agcttacata tacaagattt gtccaagatt gctagttaag aagattcaat 180
gtccacgcca gcaagtatca atttaagagc aacaaccacc attttgggat gcttgggatt 240
cttgtttttg ttgtaaaaca ctcttttta ctgctgttga gccttcttcc aaaagactag 300
gagcttgcac tatctttaga gcaaggctct gaaagcactg ctccacattt tcccttgttt 360
tggcactaca ttcaagaagc aaacacccca aatctttagc aagtgtctaa cctcttccc 420
tgctcacagc cctttcagta tctctatcaa ctctatttgc aactagtatc ttcacacaat 480
cctgattagt tgagtagagt tccacttgct tagaccaca 519

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<210> 31319

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a05d1

<400> 31319

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ggaaacatga attaagcaca aaatacttcg ataactttat attattttac atgcatgcat 60
agcatagata gcctgctctc aaattagtca gcaggaacaa agatcgagag atccaacgat 120
ctttaaatgt gacatgtgcc ataaatatat aacagaaaag agggatatggg atatgagtca 180
agttttgatc tcattcaact acaggatccc aaaccattac tcttaagact ttgaacttca 240
cttgactacc aggatcatgt tgttctaagg agctaacca acacaggccc ttaggatgtt 300
gtccagcata gctcgctgct ttgacagtgc attaaccact ggcggactcg gtggaaccag 360
aggggccttg gtcaggtaac tgaggatgga cgcaactggg tggaatgagt ggaactatcc 420
ctcatttcag cattaaactc gattcgaggg ct 452

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<210> 31320

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a06d1

<400> 31320

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agttattccg atattcggac gcatcaactt gttatgaaat cacattgata gcctctactc 60
gtgtcctagc tcgtctaaga gctagatttg cctcaattgt ttgtctcttg ccttcgcgct 120
tattcaaatt agcttctgct atttcaagag ttgctgtgc ttcttgtgga tcaatgtcac 180
tacccttttc cgcattcatt actaaaacag tgatctcatt attgtttatt ctagcaaaac 240
cgcccatcag agccatcggt aaccattggt cttaagaag acgtattctc aaaataccta 300
tatctacggc tgtggcaata ggcgcgatgat ttgtaatac tccaatgtgt ccgctattag 360
tagataaaat gatgtccttc acttccgaat cccaaacaat tcgattgggg gtcagtacac 420
aaagattgaa agtcattgct tcaaattgct ctccatttct aagttcgtag ctgtcgcagt 480
agcttcatcg atattacct 499
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<210> 31321

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a08d1

<400> 31321

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caaaacccac gaagggggcca ggtacttttc aaaaatagag gctaagagtc ccccatctg 60
aaaggcgtgg aggggcctga tcctagatgc caaccatgcc gtatcaccgg accattatag 120
gaaggcctgg ctaagaagtc cacttgggag gggaaagaaa aagcccttgc tgacgcccc 180
aattacgtta ttgacggact gagctcaaga cgtttttgcc cccaccatt tgtttaaaag 240
aggggccctt ttttaaaaac acagaagggg gcatagcctg aatagcccaa gctggaaaaa 300
caccctttaa tgggtccaca tccaccttta ggaatacccc ccttgggaaa ctttttacca 360
acgcatccaa tataggggca tggaaacggc ttgg 394
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<210> 31322

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a09d1

<400> 31322

ggaagataaa ttttaattcat gattcagaaa atagtcaaaa agacagtga tcatacttat 60
 acagatgaaa atacagtttg atatttgctt gtcacataa agcaaccgat atagatgaat 120
 agcttggttc aatcaaaagt acttactcct caaatatata tatgaaaaaa agaactagaa 180
 taaggaggagg ataggcacia cacagcacia cacactcttg aagctaactc taacggacac 240
 cattcatctt ggcattggtc ttcttctctt gcaacacaaa cttgttccaa atggcagtga 300
 ttgctctctg aggctccata gcactcttct tagcaaccac taccttgcca ttttcttcag 360
 caaagactgt cacactagtgt ctgcttatga ccctagcagg aagtgaatta agctcatgca 420
 gaacctttct aacatcgcc accaggcgct ctgcgagagt cctttagaag tcctccctga 480
 tgacaacacg aagccctgag acatgttggg catttgggg 519

<210> 31323

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a10d1

<400> 31323

aaaaaatcca acgggaccgg cttcatttca aattaaagat caggggatat tttcaaaaaa 60
 ctaggtgccc tcaaccaact gtcacagaaa tactcctttg gggaaagaag attacacttc 120
 ccagttaatg ggttccaact tacaagaacc ttggaccgca ggacatattt cccttgca 180
 gaaattatgg acttctcacc taaaatgaat ttaatgcaat aatatcttac tataggatcc 240
 tcaggttctg ccattctacat cgatgccagc ccagtcoca tctggagttg aagaaccacc 300
 cttggcccca gcgccaattc cctttccttt tggttggaag ttgactttct ttttacttct 360
 gccttcagct tcattatgag gctgctgatt aggccattt gttactggaa ctttttgacc 420
 attactttgg ctgggaatac tctcgacga tcccctcttg gatcccttgg ccttggg 477

<210> 31324

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b01d1

<400> 31324

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aaaaaaaa atgggggggg ggacccccca aacataaaag atcccaagcc cctctatttt   60
tggtcccccc caaaggaaaaa gggtaaaaaa aaaccctctc ttgggggtttt ggggtcccaa 120
aaaaccccc caaaaaataa aaaaaaaccc cccctttttt tttttgcctt ttttaattcca 180
aaaacaaatc caaaacaaaa ttcagggggt ttttttaaaa aagccccata aaacccaac 240
cccccaaagg ccgggtctcc cattgaatgt gctcaaaaac ataatttctc ttttaaatac 300
agggggggccc aaaccacccc aatttggggg ctttgaaaga aaaaaacatt caaagggggc 360
ctttgctttc caggttttaa aaaatgggtc attcttttcc aaaccctcc cccaagggg 420
ttcaaaaccc cctcaaaaaa taatcccttg gtctttttta aaaaaccctt gaccccccc 479

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<210> 31325

<211> 530

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b02d1

<400> 31325

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gaagctaaaa tgtggtttta ttgtcgattg atatatatat atatatatat atatatatat   60
atatatatgc tcatgtctgt cttatatggc aaaaattttg tgggtccaat cacaccatta 120
atcctaaact tgagagaaga atggacataa tttgtcagtg acgcccacat tccttctaga 180
caaattagat ttagtggaca gtctatcata gattaatctc caagcaaaaa acgcagcttt 240
acttgggtatt ttagttttcc atacgtcttg aaatacctca tctatattct catctcttga 300
ttccctgtca agcagttgat atgcactgct tatagtatat accccagttg agtcgcttag 360
ccacaccac ctatcttggt gctgctcatt tgtgttgaga tggtaaattt cctccaaaga 420
gcagtcccc ataggtatct caacctcaa aaagtgcctt cctccattgc aagcaccact 480
ctcaggttgc agctgaacta cataccatct gctgaatgtg ctgggttttt 530

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<210> 31326

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b04d1

<400> 31326

gataaatcaa gccatgcac atagtctgaa taaatcatgc aagactcatg gctccatggg 60
 ggccatctat gaaatccagg attccaaata atccacttgc accaaaactt ccgcctatgt 120
 taatacagaa tccgcttgct ggtggcactt tatgtcataa gagcatgata ttatcctaaa 180
 tacatatggc aagagcacgt ctggtgtctt actctcacta accaaactgc agatgactga 240
 tgcacatgat ggtggttaca cactacacta gatctatggc caaccctccc ccactaaagg 300
 aaataaatgc gatatgtatg aatcgagcag tcaaatgtga gaacactctg gacgctgcaa 360
 ccgtgcctt 369

<210> 31327

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b06d1

<400> 31327

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 gcgtcctagc tagtctaaga gctagatttg cctcaattgt tcgcctcttg ccttccccct 120
 tattcaaata agtccccgct attccaagag tttgctgtgc ttcttgggga tcaatgtcac 180
 tacccttttc cgcacatctt actaaaacag tgatctcact attgtttatt ctagcagaac 240
 cgcccatgac agccatgggt aaccattggg cttaagaag acctattctc aaaataccta 300
 tatctaccgc tgtggcaata ggcgcatgat ttggtaa 337

<210> 31328

<211> 424

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b07d1

<400> 31328

gaaaaccata aaagtttttt atttatagta atctgtggta caaaagcacc attttctctc 60
 ttataatttt gatttacatt cacaagaaa taagtatgat gctcatgatg acttggccac 120
 atcattaatg ctacgaagga ttgaagtgca tgcaagagtc aagaatatgc attgctacga 180

agttgtaaat cacaatgcta gaaaacacaa agcagttcct cttattttatt aagtagataa 240
tagacctcat tgcttgcttt aggcattgggt gttgtcctct actggagggt actttccata 300
aggtgggttc ttgtatggtg gcttcttata tgggtggcttg taaaccggtg gtttcggctt 360
gtaaaccggt ggttttggct tataaaccgg tggtttgtag actgggggct tgaacactgg 420
aagc 424

<210> 31329
<211> 554
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071b08d1

<400> 31329

gaaaaccata aaagtttttt atttatagta atctgtagta caaaagcacc attttctctc 60
ttataatttt gatttacatt cacaagaaa taagtatgat gctcatgatg acttggccac 120
atcattaatg ctacgaagga ttgaagtgca tgcaagagtc aagaatatgc attgctacga 180
agttgtaaat cacaatgcta gaaaacacaa agcagttcct cttattttatt aagtagataa 240
tagacctcat tgcttgcttt aggcattgggt gttgtcctct actggagggt actttccata 300
aggtgggttc ttgtatggtg gcttcttata tgggtggcttg taaaccggtg gtttcggctt 360
gtaaaccggt ggttttggct tataaaccgg tggtttgtag actggtggct tgtacactgg 420
aggcttgtag actggtggct tcttaattgg tttgtaatga gtagcaggcc cttgaggcat 480
gaggataatg gctgcaagat gcagcactag gatggataga aaggaagcca tcttaatggg 540
tttggtttgg tggt 554

<210> 31330
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071c05d1

<400> 31330

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ccgaacacct gaaatacttt taaaaaaaaa gaaaatcaag ggaaaaaaaaa taaaaacaca 120

ggagatatat ggcgatggca cagtaacaat aacacttaag aagcagcctt ggtctcctca 180
 gcagctgtct caaaatcctg gcctggaaca agctccggga catcgatcat atcattctcc 240
 tcttgagctg tggttgaacc ggcggctcct tcaggagcct gcttctggaa ttgctcggct 300
 agcttcttca ggttttctaa gttatctggt cctaattggt ggataatgct agggagtata 360
 tcttgcaact tctttgtttg tggagaacca ctgacaaccc aagtattagc agcaatggat 420
 gcttgaactt tgggatatag aaactggata actacgtcat ccttaaagat attgacctcc 480
 tcaatagccg ggatggcatt caccctatt gtcttcaggt gctctgaagc cttatgtcat 540
 ct 542

<210> 31331
 <211> 394
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071c10d1

<400> 31331

cttgttgggt ttgtgggttt tgaaattggg aaagccccgt agaggacatt aagcgcccc 60
 cgctattaag gggcgcggtg gaagctggat ttcaggaggg acttgaacca agcgtctatc 120
 tagggctagg gcagcgaccc tttatgggtt aagcgaccgc ccctggaaac ttacaggggg 180
 aaaccaaacc aactcgtta gagccaagcc ttgttatggc acagaggggg gtccaggggtg 240
 aagcacggac cggggaaaaa caggtttgaa aaaagcccc ccgttatgtc aagggttaaa 300
 gaataccgac ggaggggagc tttttacaaa gaccttatgg gggtaggtc gggtccttga 360
 ccggttgggt gttttccggg aaacactgtc actg 394

<210> 31332
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071c11d1

<400> 31332

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 aaatcaaggg gaactccaca caatattaat attttcacta tacagaaagt gcagtaatat 120

ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa ttacacact 180
 actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240
 ttgcaagctt aaaatgaagt caacatgacc atagttdtca agataaacca cttccggtgt 300
 ggatggcaat tccttgagtg tgtgctggaa atcagttata tctgcaaag catcattgcc 360
 accataggcc atccacagag gcaatgattt gggatgcca ctaaggtcga actttgggtg 420
 attgaacttg ccgtactcta tcagattdtt tagcttdcca taatcatact tggagtaggt 480
 acctctgcgg atcatctgga aaaggtgtt tacgttdttg gaggatgatg 530

<210> 31333
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d01d1

<400> 31333

ggattcctta atatgttaat tccttdttt ttgggggcca attdtdtccc tggccaaaag 60
 gggccggcaa taagataatg tacctaaaaa aaaaataact actgaaaaag gccaatctt 120
 tcattccata caagaaatca ccacttgtat tccgattgct tgaatcgaaa tctcctatgt 180
 tccaatgaaa ttaactagtt ttccagacc cttgcatcaa ctacgggaaa tgtcttggca 240
 ggtaatattd taacactcct tccaaaactg agaaaaaat taaaactgaa tgtgaatcat 300
 tcattgcgga ttgaataata tttatccac agagtdtgag attdtgatat tccgttcata 360
 agaactttga acttggcact gcaatctcct ccacttatgc gggtaaagga tgcaataact 420
 cggagtgcac t 431

<210> 31334
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d02d1

<400> 31334

caatgacaaa ccaggccaat ggatttdtdt ttggaggcca attggtgccc tgccaaaagg 60
 gggccggctt tgatttacag aaccgaaaaa aaagcttaca acttatcaag gtcagagatg 120

gaatgccaac ccaaaaaccg ccgaaagaac tccacgggcg agaaaggaaa gcccctatgc 180
 tccaacaaaa aaaccaaataa tttcgagaca gcgtcgacac ttccggttgg gaccagaggt 240
 ggtaaaaaag caacccttcc tgtgcaaact gccaaaaaaa tgtaaaactga tcctcaaaca 300
 ctcaaaccgg aacgaaatat atttatccca cgctgtggca gattatct 348

<210> 31335
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d05d1

<400> 31335

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 atataaaaaa tgttacattt aactaatata ttgtaagctt cattatTTTT ggctcctcag 120
 tttttagtca agctcgccaa tgcagtcgcc ccaactcaatc cagctcctct atatgcatac 180
 atcacaattc tctaagcttc tgtgttcaat ccatctgcc a tgcaagcaat aagctgaaag 240
 aatgcattta tgcataataa tccagattgt gcaccagata ttttgcaaac ccaagttcca 300
 aagtcaacaa cttaagggtg aatatacagt aaacataaaa aatatggaca atatagacaa 360
 ataaccaaca cagaatttat atgggtgtctg attgtgggaa gagcttttcc aacatgttat 420
 tccaaaggat cctattgggg tccaattcct ttcttgcttt attgtatgca tccacaggaa 480
 accgctttct tagcttttct ggagagctgc aagctcct 518

<210> 31336
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d06d1

<400> 31336

aaagtgaaaa aatattttct aatataatta aatgttttaa attactcata aaatatgatg 60
 atataaaaaa tgttacattt aactaatata ttgtaagctt cattatTTTT ggctcctcag 120
 tttttagtca agctcgccaa tgcagtcgcc ccaactcaatc cagctcctct atatgcatac 180
 atcacaattc tctaagcttc tgtgttcaat ccatctgcc a tgcaagcaat aagctgaaag 240

aatgcattta tgcataataa tccagattgt gcaccagata ttttgcaaac ccaagttcca 300
aagtcaacaa cttaggggttg aatatacagt aaacataaaa aatatggaca atatagacaa 360
ataaccaaca cagaatttat atggtgtctg attgtgggaa gagcttttcc aacatgttat 420
tccaaaggat cctattgggg tccaattcct ttcttgcttt attgtatgca 470

<210> 31337
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d09d1

<400> 31337

gacaaaaaga aaatacacgg gtatacataa atgaatacat agccatcttc ccagggataa 60
ttactctatc ataagttaaa cacaaggaag acaagggccc ccaatatttt actacaactt 120
aagggtgata agctttgcaa gaatggccat atactaaaat tgccgttgta aatggaagga 180
aaatacatgt gatgcgataa aggggggggaa agatttctga gctataaagt tacctaakat 240
ggcccggggg gatactaact ccctgtacag accaaattga aaaaaagggg caaatggaa 300
gaatcaagat attcttaaag atgctttgac agcatcgggt attacaactc aacgaccaga 360
aacttataat gaattgggta tctgggctcc ctaaagttgg agggttctaa tctttgcctt 420
gtccaaccgt gcttttcgaa ccacccttg gatttggagg tcatgggcct 470

<210> 31338
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d10d1

<400> 31338

gacaaaaaga gaagacacag ggtatacata aataaatagc atagccattt tcccaggggt 60
aattactgta tcataagtta aacacaggga agacaagggc cccagtttt gtactacaac 120
ttaagggtgg taagctttgc aagaatggcc atttcctaaa attgccgttg aaaaggggaag 180
gaaaatacat gtgaggtgat aaagtggagg aaagattttt gagctataaa gttacctaac 240
atggcccggg gggatactaa ctccctgttc agacaaaatt gaaaaaagg ggcaaatg 300

aagaatcaaa tattcttaat gatgctttga cagcatcggg ttctacaact caacgaccag 360
 aaacaaataa tgaattgggt atttgggtccc cctcaagttg gaggcttcta atctttgcct 420
 tgatcaaacg agcttttcga accacctctt ggatttggcg gtcattgggccc tttaacatct 480
 ggacatgggt gcttga 496

<210> 31339
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d11d1

<400> 31339

aggaaataaa aatagcattc aatataataa agaggtttcc ctctataaat acaagagatt 60
 agaacataag aaaggaatgg agataattag gtgtgcagga tacaaattaa tagatgacac 120
 tacaacttat gtaagatgat atgagcacca aattttggat taagagtgag cacagtgact 180
 ggagcatgtg cataggtagg agaaagctca aatgagaagc gttgtaagag taatgacaaa 240
 accaacttcg cttctaataa agcaaaattt tggcctaagc acactctagg accccatcca 300
 aatgggaaaa acacaacttg gccttttggt gcctttgcta ctcttcagc aaatctttct 360
 gggttgaact ctgtagcatc atcaccccaa atatcacgat cctgggtgaat caatagtatt 420
 ggtaaggaaa cttgcactcc cgcaggtagg gaaaggtttc caagtttcac atcattcttg 480
 atcgctcgag caaaataaat taaaggtggg tattacctaa gaacctggta taaaatcatg 540

<210> 31340
 <211> 358
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e04d1

<400> 31340

gaggacaaaa atgaaatctc attcttcagg ataattagag gcagtgggtc ttacataccc 60
 tcaacgccct tgtaggttaa cattggaggt tactggatac acacaataga caaagactac 120
 atgcatcttt tctgactatt gtggtaaate tgaccatgtt tgctctattc acatcgaca 180
 ataaaaaaaa aaatgcacaa cctgctaaat gtgcatctag agaaaggtaa tactatgcgc 240

tggtgacat caacaaaagc ctacttcacg tttactgcac aaggcatgtc atgttgggct 300
agaactattg gcttgtgagt gtaaataatag taaagcagta ctcttacacc tactttca 358

<210> 31341
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071e05d1

<400> 31341

caaaagctat tccattaact tgccataaga gataactatt tcttggtcca atatcaacat 60
ttaaacctgt tatttggaga agagggaaca caaatgatga ccatctttca attcaagaga 120
ccatctagca ctctaataagg gttctaaata ggcaagaccc caatagaaac caccctatta 180
agagttgaga gaaggatagt accccaagta agaagggccca tgcaaccata aaaacaccta 240
agcaaacaac cacaacaaaa ggcagaaaag accttacaat tgacctgaaa tcaaccagat 300
gccctttaa tattacaaa gctcctacat tcacatggt ccaattcatt gatccaccat 360
aacacagttc gattcagaca gttggcaaca aacgagtggc agttgcaagt gaaaagggtg 420
ggagttttgt tc 432

<210> 31342
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071e07d1

<400> 31342

cccgatcgg ggacaatttt ataacaattt tatttgatgt aaatacgaag ctcacaaaa 60
cacttaattt tggataatac aaagaccaat ggatgcggaa gaacacaggg aaaacgcatg 120
acccaaaaaa cgcaaacgag ttaggccaag cagacgcac atggaggact tcagctgttt 180
caactatgca actaaatatt gcaggatgat taatactaaa aggtgaggat gtttcctctt 240
attctaaagg agaaaataaa tcaatctgat tgggtgttaga tttcatttct gggtttggtc 300
gacctttgct cgaatcttct ccttcaaac agatatttct ggctcaaggg tgaacattct 360
attcaaagca ttcattgtct ccagtgtctc actaagagtc cggctggcgt tcccatcaca 420

ccttaaaagt tgcattggac catgaagcac cttattcact ataccccgac tta 473

<210> 31343
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e09d1

<400> 31343

caataacaaa acgcatggaa atatatgcga tcaaggatca aacaaacaag atgtaagcaa 60
 cacagcacgc acgcacaaaa ggggtgcaaga gtgccaatta tagctaaaag tattagctaa 120
 tttaagcaat catacaaacc caagttacac aaaagagaat acttttagca agcattctgc 180
 tattacaaca ttcgctagaa aagataagca tctttctcca agaaccgtca gactggcatg 240
 aaatcaccag acgagaccaa aatttttgaa atgggtcatg ctttgctggc aatgttgta 300
 gaaagccagt ccaaaccctc atagagaccc tttccagaag ttgcacaagg gctctggata 360
 taccagtggc gttgacggat tgaatgaagt ccaagcttgt cagttatttc tgcagcattc 420
 attgcattag gaagatcttg cttggtggcc aaaacaagca aaacagtatg tttaagtcca 480
 ttcccttgca acatttttgt gcagctcacc ccttgccctaa accact 526

<210> 31344
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e10d1

<400> 31344

cgattattat aattatattt ccagcaccga aaaaggaact gcaattatta ttcaagttgg 60
 ttgttgcaac attgattgct gctcgccaaa agactcgtcc gaaacaacaa tagcgtccgc 120
 atcccaccaa gtatccgcgt cagattccgt tacgctctct aacggcgtgc tgacctttct 180
 catatccccg accgtcacgc cgtaacgccc gtcattctctg acgtagacct tctggacgcc 240
 accagattcc acgcgcaggg tctttccac ggtgggaccc cactccgcca ccaccgtggg 300
 ctccgccgc cgcagccgcg tgtcccagat ctccagcgcc agattccgc acgcgccttt 360
 ccccgccgag acaaccaccg agggagacgc ggtggagctc gtcggaaccg acgcgttacc 420

aacgtaataa ccatcgtaat catcgaagtc caagcccagg ccgaagccta tgggtgtccca 480
gagcttcacc acgctc 496

<210> 31345
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071f01d1

<400> 31345

aaaaactagc gtggaacttg cgctgttatt aataagtccc cctgggcggg tggaaaacaa 60
cattgggggg ggcttcccc attgactatg aattaaagg cggttttatt ttcaccccc 120
agaaccaca atggtgggta ggttttcctt ccccgcata tggtattttt atcccccttct 180
tacagttttt tagttagtc ttccaataga tatgctttat ttgccttggt gggtatgtaa 240
atatcatttt agcggactga ataatccttt gctggttga aaaggcaagt ccaaaaaacc 300
aataacttcg ttccatttaa tttttaaaaa ccaaatgcc ttttgtttcc ctggcatgca 360
cataaccact ctccattatt tggttaaggga ccttgattcc ccaattacat gttcccctac 420
aattttggcc acacttggtg catgctttta caatcattac ttaaatgggc ttaaaaaacta 480
aagcttggtg ggtcgtaagg aaaagg 506

<210> 31346
<211> 323
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071f02d1

<400> 31346

gcaaaaacta ccgtggcact cgccctgata ttaacaactc ccctgggcg gtggggaaac 60
aaccttcttg gggggttgcc cctttggcta aaaataaaag ggagagcttt tatggccccg 120
ccccaacaca cgaatccgga caggctgttc ttctcggact ctagggattt gtacaccctg 180
ctcacgctag ctgagctagc tcttccaatt acaaggcctt ttttgcttg ggggtgaagg 240
gcattctctc ttagcgcacc ctataaccct tcgttggcag gaaaaggccg gtccaaacaa 300
ccagttgggg aggtccctta cct 323

<210> 31347
 <211> 309
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f03d1

<400> 31347

cggggaaaaa accccccccc ccaggggatt ctttcaaaaa cccccccctt tttccacccc 60
 ccccccttg agaggggtcc aaaaaaacta cattcccggg ggcccctggg ggaaccattt 120
 tggcagccga aaagccctcc cctaacacag ggggtaacag gaatcttcgg actcaatggc 180
 ctaacaaaga aaaataactc cctgagagca cccccccaga gggccctatg ggctctccag 240
 aagattgggg gccaaagagcc ccggtgaatg gcccaacgcc ggccattcca ggggggggaa 300
 gagagcccc 309

<210> 31348
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f04d1

<400> 31348

aaggaaaaag gaaaatgggg cgatatattg gagtctgcat gggcaaataa atgctcagta 60
 aaattatgat acatgtacat tcctgagcac actaaaacag atcagtggcc aaaaaagaaa 120
 aaaccaaaaa ccaatcagaa acagattgga gaagataata tacattgata actgtgaatg 180
 atgagtggca tacgcaaagt aatcttgcaa catgtatggg actgagaact ccctcattgt 240
 agtghtaagtc aaaaaaagc cgcacaaaca ggggtggaact agaacgagat ctcacaaggt 300
 gcatgaaatg ttcttcctcg acatattggg tccagggttt caccagcata cgaacagagg 360
 ggtgacactt caacacctgt tgcatataag ggactgaat gtgttaagaa gccacctgca 420
 gcaactaccc aacgagtatg gagtgcgca acaagtagtt gcgcactgtc tggagtgtca 480
 acattggatc catttgcatt tttcac 506

<210> 31349
 <211> 382

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f05d1

<400> 31349

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ccggtggatc cacttttttt agatttgtct ttttttttg gggaactaca gcttgtggcc 60
cctaaccaga cgacaaattg ggcccagggt tcgtgaatgt catcacttca caaaggggtg 120
gatccaatag gcgcccagat ttaatatattt acatgggtgcc cgaaccaaag gttttttcgg 180
cgctataacc catggaaaga aatccctccc cttccttgaa tgggccatac acagagtcca 240
ttatattagc agtttggggc acgggattct tcacaaaatc aaagaaagct ttcccagggg 300
gcagactaag gttgggacct aaaatgtgaa tgaaatgccc aacaaacaag gctcggggaa 360
caaggtgttt ttttttctcc aa 382
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<210> 31350
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f06d1

<400> 31350

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agtaaaatca attttgatca aattattttc tccatttgct ctattttaga cgaggaacag 60
aggcaatata agcaagtata agctgtaagc atcatagcac taagagctta tacaataata 120
tatacattgg taacaattgg tatcatcata cagtttttct atgtttaact cagacatata 180
actttatttg actgcaagca atcacagtca cagagctcaa cacagcattg gattaactca 240
aaacaggcca gggctgcaca tatctgagtg caaacgatgg tgcactgggc attcacaaaa 300
gtgcaagtct gcaacagaca catgccacaa caggtatcag ccaatcgacc acaacaattg 360
gaagcaggct tccccagtag accttcaggt ggttggtgctt cttttatagc tgggtggcaag 420
ttctcagcag ttgctttcaa gtcaccaaatt ccaagattca ac 462
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<210> 31351
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f07d1

<400> 31351

gagaaattac tgacaaataa tattagaaat atgctcatgg tacaaattta gattactccg 60
 gacagcgtat atcatccacg aagaggattc ttattgacta aacgtgcata aagtcaaaga 120
 actatagtaa acttcaaaga tcaagaggct gattattatt tacaaaacac gatgtacctg 180
 atggagaaaa ataactttat gaccattatc tcaggaagtt gcgggttcag ccccatcgtg 240
 tcgggcacag caaattgtag ctttatgatg cccttggaag actttaatat cttcaccagt 300
 tgacatagac cagagcctcg caggtgtatc agaggaaagt gtaataaggt aggcgccatc 360
 cacggagaag acacagtgcc acaccacggt ttggtgacct ataagagttt tttctagggt 420
 aaaaccatca acattccata ttttgacagt ttgatcagaa gatgcagttg ccatgtgcct 480
 gtggtgttca cagaactcgg gtgattaaag acctttgagg atgtatcc 528

<210> 31352
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g02d1

<400> 31352

ccttagccaa tatatcatga aaagtaaaaa ggggcaaagt aactttgtgt tgattgctct 60
 ctaaattaaa gttatcttct tctgcgtgta aaaagggaat gaatacatca atcaaattcc 120
 gggaggcttc ataaagcgtt tccttaggag ttgaacttcc atttgtccat atttcgagaa 180
 agagtatctc ttgtttttca ttccattca cataagaatg aatactatga tttacatttc 240
 gaacaggcat aaatgtggca tctataggat gacctccatc ttgaaagttt tttagtgttt 300
 ttatacgata cccacgattc ctctcagttt ttaattcaat acacaaatca acgggttctg 360
 ttacgatggc tatatgttgt gtattatcaa cgatttccac agaggggtgg aaatgatgt 420
 cttgagcgga tacata 436

<210> 31353
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g03d1

<400> 31353

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agtcaacatg atgaagactt tcttacatat taaaaagcaa aagataaaaa tgtagagcat   60
caaccacatg ggtagtgttg cagttgttta cagggttcaa aattaatgaa caccttgagg  120
accacatta gactcttgaa tgtctaacaa tcaggaccac aacacgaaaa aaaaattata  180
tatcgcacaa aatgtaacat ggaaataaag caaactatac actgcttaca taaacatggg  240
tcatgccagc cccacctaaa cctttgaatc gtttgttate tgctttacca cttgctgcgt  300
cacaaaattc tctcaacctc ggaggaaaga agcagaaggc ctatgataag cagaagcctt  360
tctagggaca tctgaaccac cattgccacc gttggaacgg tcatgaccgg aattgcgtac  420
atgatgctgt ttatgatcag cgccttttct ctgcatgctc tttgattcct gaagctggtc  480
taacgctttt accacc                                     496

```

<210> 31354
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g04d1

<400> 31354

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gaatgaatgt aatcttgtca ctcaacaaag agaaaagggt gatgcttaaa ttccaataca   60
tacatctcca gaaaaaagaa aaaagagcta cgaatcacao aaaatgtagc ggtaaattgga  120
agctcatatg aatagtaatt tacattcttg accaagcaac agaaatccga tgaagaaaaa  180
gcaagccaaa agaattcaat ctctgtgaagt tgagtgaaga ggccaagcat ggattgtcca  240
acttgcaaaa cttctagctg gctatatacg cattttgcac ctatatgtac accaggaaag  300
cacaccaga aatgtcatca aggaacaatt ccaaaaagaa ttcaaattgat atgccacac  360
acagacttga gccagtgtgt gatttaacat gggcaggttt aatggaacaa atgacaacgc  420
ttgtggaagt gcaaaactag cagcaatcac attccccttg gaaatgtagc tgctccaaca  480
gggtccaatt ggaagttagg aggtagagaa cacatctctg atttttcaaa gagccatact  540
tcaagac                                     547

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<210> 31355
 <211> 553

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g08d1

<400> 31355

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aacagggtgga aaaaataatc gtgaaactca aacaagtcgg taccaaaacc ttcgtttata   60
atTTTTgact ttctggactg caccctccaa ccaacatgac ccattactcg caacaaatac  120
atatgtagaa tgaaaaataa caataataac aaactcccag accccgaaag ctcaaccagt  180
catgcctcaa aattcaaacc caaccctaac tttgccagct gaaataaact caagaggaca  240
caaacagctc aattcagtga cacaatccgg caactattaa gtatgagaat atcccaagat  300
atggg'gcgca aaaacatcaa ccacctaacc ttgtcagatt gccaaagtata gaatatgaat  360
aagaaacact caagctgagg atgcaggctc ttcggctttc ttatcttcaa ccgccttgct  420
ttccttccct gatgcagatt ctttctccac agttttgtcc tcagacttct cttcatcctt  480
cttctctgca tcaacctttt cttcaacact taattttctca ataagaccag ctgcatcagc  540
tgattccttc tca                                                    553
```

<210> 31356
 <211> 522
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g10d1

<400> 31356

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atataaagaa tttctttatt aaatgaaatg gccaaaatgg gaataagatc ctaagttaca   60
ttacatatag tatcaaattg acatgaaatt caaacatcaa taactcaacg agagacaagt  120
tgttcacaca agtatcctta aataaatcta ttttgaatca gcgagcaggc tttcgtagcg  180
ggctttgaag aaggcaaaaa gtgggtctct aggaggaaga acttctttca caacagggtg  240
gctcatgaac tcttggctcc aattgtagag cttatgaaat ttctcacttg tgaataactc  300
caaccctgca atttcttgaa ccatagggac ccaaaatgct atgaagatag cagcaatatc  360
taccatccca aactcctctc ctccaaagaa cttcttgccc ttgatctcac tctcaagaaa  420
ctgcagagcc ttcaacgatt cttcaacatt cttctcacgc tctttctcat caaccgtgaa  480
aacagatttc catacagtac ccccaatctt gacatcaatg aa                                                    522
```


<210> 31357
 <211> 559
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400071g11d1

<400> 31357

ctgaaaaaca aaatcccaat ttaactgaag tacgtttcga ttatactgaa tacacaacat 60
 tacgacgtag gaataaacat taacatgggc cacaaaagaa gtacacataa caagctatca 120
 cagaagggtca aaaaaataat ccagaccttg gccaatcttc cagatcgaga tgccacattc 180
 ccatgaacga gcttcctcta accgcaaaga aattgacttc aaagatggat aaaataccac 240
 atgcctgata tccttgctgt cagtgtaaaa gaaaaaatgc tccccactat tcttatccca 300
 ctgcagttca ggccagtgt tctccaaaag tgccaggtaa tctctcccaa taatagctgc 360
 accccctgca tctgcatccc ttgaaagggg gaaatcattt ccatagaagt tgataccaag 420
 aagtatcttg ggggcaaggc tttgggctct attgccagag gtaccgagaa gcagctgtag 480
 aacaatttga atccatgtta aagggtgcatt angaccagga ttatgaggat tagaagaatc 540
 atatgtcatt aacgagaat 559

<210> 31358
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h05d1

<400> 31358

aaactcacia gtgaatgcaa ctattattaa ctttccaagg gtaaaaaggc ctgcactctg 60
 catgacattt atatatgcgg agagcacagc aaaatgcccc actgatcaca aaaatatcca 120
 ttaaatttga tgaaaataca gtaaaaataa aaggactaat taatacaaga aaacaaattg 180
 ataatcatag agcagttctg agttctacaa gcaaatttta agcagaaatg ctgctcagtc 240
 agagaagaga cctatatgag agttgatcat aaggaggaca cgttcccgtg tttctcagtt 300
 tctccataat aattatgaat gaacgacacc aatcttctta gcaaaatcat ccccatcttc 360

ttcttccatg taatcttcct ctggattatc accctcttca ccttggtcac tcatagtatc 420
 cctcttcacc ttgttcatac tcatagtccg catctctctg atcatcacct tcataaact 480
 gatcctcacc cgattcattg tacactattc cctcctcata ttcaccatc 529

<210> 31359
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h08d1

<400> 31359

ctactgattc aatttgcattg atgcatttcc tagaagtgtg tccaaactat tcacattaca 60
 caatcctttc cttcgatata ggtcaaacta ccagtcacca gacatgaaag cttagtatca 120
 acagaaaaat accagtagat tttaatctta cttctgggtc catttacatg atacatgccc 180
 aaatttgtca ccaaactaca aacactacac aatccttcaa acagactaca atgacaaaat 240
 ctgatgaaat aaattcctca actacacaca aataaatggt cctctcacat tcaagagctg 300
 cacaaactgc tacaaatttc aaatctcata cagggttctc accaggcaga taagaaggag 360
 aaccaccctc aacctgggtc tttttccttt ggaagatgcc actaatattt ggcaagagtg 420
 ttttctttga aactgaaacc ttctcctttt caaacttttt cacctgcacc attgtacgag 480
 gaggattctg cttttgaatc ctatagtgtc gaggagatga ttctgttg 528

<210> 31360
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h09d1

<400> 31360

atataaagaa tttctttatt aatgaaatg gccaaaatgg gaataagagc ctaagttaca 60
 ttacatatag catcaaattg acatgaaatt caaacatcaa taactcaacg agagacaagt 120
 tgttcacaca agtatcctta aataaatcta ttttgaatca gcgagcaggc tttcgtagcg 180
 ggctttgaag aaggcaaaaa gtgggtctct aggaggaaga acttctttca caacagggtg 240
 gctcatgaac tcttggtcc aattgcagag cttaggaaat ttctcacttg tgaataacta 300

caaccctgca atttcttgaa ccatatggac ccaaaatgct atgaagatag cagcaatatc 360
 taccatccca aactcctctc ctccaaagaa cttcttgccc ttgatctcac tctcaagaaa 420
 ctgcagagcc tccaacgatt cttcaacatt cttctcacgc tctttctcat caaccgtgaa 480
 aacagatttc catcacgtac ccccaatctt gtcacatg aatttgga 528

<210> 31361
 <211> 350
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h10d1

<400> 31361

atcagaagct tccgagcaat ctctcaatgg tattccgccg taaatccggc ccacagatgt 60
 tatagaatat actaaactcc ctgaaaaaaaa acttttcagg actaggacac acgtgactga 120
 aaaacttcct gatacatctt gcaatacacc atggggccac tgcatttatt tcacagcttg 180
 gaggcccggt gtaaacctcc atgcttacca atcgctctct caaagtacac ttgaaacggg 240
 ggacagcatt tgcgagtctc atttacacac ctgtatttac cccaagctat taatgcttta 300
 cttgaacgct tgcatagctg atacaggcct agagcacccc ttggacaaga 350

<210> 31362
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a01d1

<400> 31362

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 acaaccacaa cctcaatctc aaaacccaaa tgcagcttga catgaatcca tgccaaagaa 180
 cttaaactct tttgagaaat tccatgatgt tggatttgaa agcacagcaa acaactcgga 240
 aaccttgga tccagaccct ttggccagag cctcaaactc tttctctggt ctctctttcc 300
 cacctggatt atgtgccaac atgatcacat tgatgtgaac cacacctttt gtggcctagc 360
 tagagtctgg agccactgga agaatgcatt ctgccacaat caccttccca ttgtctggtg 420

002220-ETFE50

gtgcctcgta gcagttcttc aaaaacttca agcagtgctc attactccaa tcgtggcaaa 480
tccacttcat aaaaatagca tcagctt 507

<210> 31363
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072a02d1

<400> 31363

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tgccttggtg aattctgaga gaaagacaca cgaaactaaa caagaacaca tggttatggt 120
taagaacagg agataaacct aaccaacgac ataagcatga gtcgtttgga ggaacacgaa 180
acacaagatt taattcagca acaaaatcat taacaacaat ctaagttgtg aaacccccat 240
ctacacatat aacctgtcca gtgatgtatg atgcagccgg aaggcaaaga aaagcaacta 300
atgctgatat ctcttttaggt tctcccatgc gaccaacaaa tgtttgagac actattccat 360
ttatagactc attcccttcc gaagaattca cgatacactc caaaagttta gtcttaacag 420
gtccaggggc aacagcattt gcacgaatat tatcctttgc ccattccaat gccaagattt 480
tggtgaattg attcatggct tcttttagagg ctgctttaac agagaacaca ggaagagctt 540
t 541

<210> 31364
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072a03d1

<400> 31364

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tattcacata aaaagactaa gctttgttgt taggagtttt ttttttaatt tcctgcaagt 180
actggcaagg aaccaaact atgtacactt catgcaaaat ataaaactga tgataccaaa 240
caccagaatg ctatcaaaac tcaatgccac tattttatctg aacggagaag gaagggcgcc 300

caacggtgga gagaggaaca tcaactctta gaactagacc cgagttcccc acattttcat 360
 tccactttga tctttcaata gatactgaag caaaggcaga aggatatgtc atgaaagcac 420
 atccacaaat tagattaagt ttctctttac tgaatgaagg agttctgccc gaaccctgga 480
 tgcttcaca acagtggaca cacactg 507

<210> 31365
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072a04d1
 <400> 31365

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 ttaaaactcaa aaaattggca tcaagggcac attgccttga ttttatgttt gacagccatt 180
 aataatttgc atcaaaattt gggtcatcaa aaccaagtag agataacttc tacttgtggc 240
 agaacgacct gcacttttaa ataactaggc aaagttgtaa aaataaatta attacactaa 300
 aactgtagtt gggtgaatgc gctttaatag ttaaatcttc aagctcaata atcttaacca 360
 cagatgcac accaagtttc tggccaacaa ctaccgggc atgtgactta ataactcca 420
 atgcttttcc atgatcaa 438

<210> 31366
 <211> 342
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072a05d1
 <400> 31366

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 gccctcccc ctctaaacaa aaaccattgg caagccaaat aaaggctcca cgctttctct 120
 agaaaaaaaa aagctcctta tgactttctc cacctttatg aggacctatt gacactcggg 180
 taacggactt tacaccccca cttgaagaat ctcgcgaggg atttttactt aaatctacag 240
 ctgtggcgag tatagggtgg ggtttaacaa ctggatactg cctgatttac acctttaaaa 300

aagggccccc gctttatcgc aaaagaacct tttttacttg cc

342

<210> 31367
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a06d1

<400> 31367

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 acatgcatgc agcaacttct ataatgaata ggcacccagt ctttctctgc acaaggtata 180
 aaaatagtaa tacaaaataa gcaatcctgc gggttcacia tcaatctgta tagcatatca 240
 aattcatagt tccattttctt ttgcagagtt tatggctcag tattcccttc caactcaggt 300
 tttgattcct tgtcttctga ggaggagatc tgaactgcct tcatcagcaa cgggccatt 360
 attagtgtgt cctacagctg gagggttctt atagagttca ttattttcca gttgggctaa 420
 cttatttttg gattctccct tcagtagctc taccacctca agttggtggg tttcttcttt 480
 ggc 483

<210> 31368
 <211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a07d1

<400> 31368

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 tacaagatgt gttagtggagg agctaact catccatata aattaaacca ctataagata 180
 tgtgttagcg aggagctaac acacattcac aaatttattc tcatgatag gaaggcaaga 240
 aaaccttata atttggcact gatcttctt gttggtcaac taggcattga ccaacatttg 300
 gtagtgccat tgcctacac acttaatttt acaagtcttc ttcacaccaa ctttgtatta 360
 tccttttttg ttttctatgc ccaatgcaat gcactctaga ataaaatata tcatgactg 420

gaacagaagc ctaagagtcc catgaactca tggttgggta tcatttgaat gctgttctca 480
 atgccaaacca caccattgt gagggcgcta gcaaaaataa caccctgaga gggatgaata 540
 caatgattg 549

<210> 31369
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072b01d1

<400> 31369

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 aaaaaaaaaa aaatttttgc cgcgggggaa aaaaaaaccc ccccttaaag ggggtttcac 180
 tctggtattt ttaaaaagaa aaaaattttg gggtaaaaaa aatggaaaaa ccgggggccc 240
 aaaaaaaaaa tttcctgggg aaaaaaagg gcccaagtgg gaaatttttt cggggccatt 300
 ttatggattc ccccggggag ggggttttga aaaaacaaaa attttttt 348

<210> 31370
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072b02d1

<400> 31370

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 atccattttt ttgcttctct tttttgggtt ttaataata tacatgattc ttgaaattgg 180
 ttttcatttc aaaatcctct cactcactca ctggtttgag agattacttc ttcaaacttg 240
 aggaagagtt gagcatctga agtgctcatt ggggggcagt ttactaagtg gggggttttg 300
 agggttgcat actcatccac gtagcatggc actttggcag atggatttga agcaggtggt 360
 aggtcaacta gttgcttttg tgggatgctt gatggcacga gacttccgag tacacgtgtc 420
 act 423

<210> 31371
 <211> 437
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400072b04d1

 <400> 31371

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 tgtaaacatt gaacataaca aatTTTTTaa tgctacacta taatgactta tttttatata 180
 caaaaaaata aatctgcaag cttaaagctct gctattgggtg aagattctct caatatctaa 240
 aatcttttcta ttccatttct ttttaatttt ctttcaattc acaattcttt gcagccaaat 300
 ctctaacgta gtattcattt ttcccttggt aggtgtaaac atgtggaact gacaagggtt 360
 acatggacca aacttcacgt aggagttggt atctagcact tgtggcgggg ttgacacctt 420
 gctctttatg attatta 437

<210> 31372
 <211> 497
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400072b05d1

 <400> 31372

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 ccgaatttac aaacaaaatt gattgcaaaa ccagcataac catcaaagac catgtaaaat 120
 aagctataac ttttccaact aactgaagcg cctaaattgg aaaagagacc tatctcaagg 180
 ggggactaca tcaacaaatc attgccccct gtatatggca cttgcacaaa aaaaaccaat 240
 gcctttgaat gtcttgaatg ctcaagaagtc atgaattttg tggacaagca tgcagccacc 300
 agacaaacca ccatctccca acagaataaa ttggttttca gtaagatgag tgtcttcacc 360
 taatcatctt ttaatggact cgcatactcg gttccgttgt ccaatctagt caagtttagat 420
 gaggcgctag atgacacggc atgaccctca ttgtaactgc tttttgatgg ggttctctga 480
 ggattgtaag ctgcagg 497

<210> 31373
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072b08d1

<400> 31373

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aactttttctc tatttgacag tcacattcaa acaaagttca tacatacctc atcaatcttc 120
ccttatttta tcttcacttt aatcatattt tctttccttt cagtgtccca gatggcatct 180
tctatacaag aagatcatct tcaagataat tatactcaaa agtgaattca gtcttgattc 240
tttgacacca tccatgttgc atgtcatcat ttgcaatatg gaaatcaaag tacacataag 300
ttccctgctc atattcatcg gttgcaactt tgggctcttc atgccgctga aaccatgtgt 360
tatactttcg gtggtatctc caagactgct tctttaactc ctttgcagcc aaatattgtt 420
ggtaagtatt ctgttgataa taaaatgcaa agaacagagt atc 463

<210> 31374
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072b12d1

<400> 31374

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gagcatgata gtttatcaga acacaatatc attgtgaggg aggaattgaa acttgaaagt 120
aaagaatcga aatctcgtt ttcaagttat gagccccca ataaaggaaa actaaactta 180
caccaataca caatgtagaa gcaaaaaata gtgcacttaa tgtacctcat tcccttttgt 240
gggagcaaac ctgttctgca gtgccactgg acattgtgat tttgtgatac aaaaatacaa 300
cagagttatt ttcacatgcc ccagcacttg ataaaacttc aattacaatt tacattttat 360
tcttcaataa aattgatctc ttttctcttt cacaattttc tgtttaaacc attgccaaat 420
gttcaaactc caacctaaagg gtgccctcaa aatctgagag ttaaattggac atcacaccat 480
catgttactc atcaatatgt tcacttttca taa 513

<210> 31375
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c01d1

<400> 31375

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 gtaatatacg ttttggtagc agtaatttga cttgacgcca gcctccgctg gaaaagttaa 180
 tacgccccgag atgttcatt ccattcccgc aaatattaag cttccagccg ctggaaaatc 240
 ggtggaaaag gaaaacaaag gggtgacaga gtggctcgtc agaaattaat gaagtccaat 300
 gagtcagaaa cacaaagtta gcattgcccc caccgcaata tttccgatcg ttgacacaaa 360
 caggagaatg ttgaaattcg aagcttcagt gtcttgcctt tgacgaaaga caca 414

<210> 31376
 <211> 268
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c03d1

<400> 31376

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 ggaatgttac ataaagaaac acggcactta aaagaaaaag cagaaggctc tcgtgtgatt 120
 tacataaaat cacagacagg gtacagggtg tgcaagggtg tatatattta attaatcgat 180
 gagacaaaaa taatgccttt agacagcaat cctctaactt tcccactaat gagaacaata 240
 atcaagttgg aaggactagg atgaagtt 268

<210> 31377
 <211> 229
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c04d1

<400> 31377

ggtgttgggg ttaaacacaa acggaattt ctttggggg tcccccttta aaaaataacc 60
 cattgaaccc cggaattta tgaggaaaat attaatatat agggccgagg gggtttaaaa 120
 tgtctggctt taaaaaaacc cgttgcttat aactggggcg gaaaacggac ttctaaaaag 180
 agtggaaaaa agagcgaaaa aagttccggc cttgggacat gccggaaaa 229

<210> 31378
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c06d1

<400> 31378

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 agcttctctc caagtggaga atgcttaggt tctcaggggtg tgtataagca ggttccatca 180
 tcacttcttg cagttgggtc gaagtttgag gcatttggat cagtacaacc ttcaggaacg 240
 ggaatgttta cttgctgagc tgctttgcca tagaaagttc ctctgttgat ggaatcttga 300
 ttagcatcac caagagcagc ctctttcaag tacttgtctg ccagttgtac tctcttcaca 360
 ttctcttggt cttggacaag catgttacca tactccaaga gcttgctcaa agtcatcttc 420
 ggttggtcaa aggttgaggg tccttccttg gagttcacia gcttcttccc aatgaagtca 480
 acaccaacaa cagaaatcca ctctctcacc taatcatgat atactctagc cct 533

<210> 31379
 <211> 520
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c08d1

<400> 31379

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 ggactctacc aggattcttc attaaaacaa cttttccaaa tcccagtagt tcctagggta 180
 gaaattaaac ttgcacatgt gtacaaagac ataaaatatt ccctatgcag ctagacactg 240

ctagatagct ccatacttgc ccaatttgaa attccaaata tgagaataac tacctggcat 300
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 ctccagaagc gtactttgat tccttcacag caggcttgac atcttttcca tcacaggtg 480
 cttcaacagt attatcttca gtaaaatgag aattctgaac 520

<210> 31380
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072d06d1

<400> 31380
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 aggattatta tgctacttgg taattgttct gtctagggtt tcgctggagg gagagagtgg 180
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 tctaaaaatc tgtgtctttg tgtatgtgct tgacattatc ttgtgttttg aattataatt 300
 gtggcttgct cttgctttga ctagtgaat tttaggtaag attgcctacg tagggacatg 360
 attagtctgt atatatgaaa ataaattgtc tccttggaaga gtaaaaaaat atgtgctagt 420
 gtctgatcta ttcaaattgtt 440

<210> 31381
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072d08d1

<400> 31381
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 acatatttca acgagacata caaggatttt cgtaatttgc tgggactggg gtgttcaaca 180
 aattgcacaa caaccgaaac aagttgaagt tggctgcaat ttgaaaatgc atgacagtaa 240

acaaacttgt ttttggattt ttttggactg cattcaagtt ttcaccccaa agacaaaacc 300
attgctgtat gaaagaagat tgctaaaaac tgtgaaattt ttcacaggtg accggaaagg 360
atttggagtt actggatgtg tgat 384

<210> 31382
<211> 582
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072d12d1

<400> 31382

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caatttaaaa acaaagtctt tgagcaaatt tatacggatt taaaaagaga aaaaagggtt 120
gtcattaatc aaaaaatgcc cgaacttaat tcttgcctta tttggcccat ctagcacgtt 180
caagatggca tttaccatac agctttgtca cccccgtaat ttttattgac ccatgaacct 240
gatgcacat ctgctgttta tttccaacta gatgcttgac ccttgactgc atcacttgat 300
tgacccagct ccttacaagt agtgtttgaa ctagattcct tgggccaccc accaccctgg 360
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ttgctgttcc aattattgat acctccacca cttgctgaac tccagctttg cttatttcca 480
gcttggttcc agcttggtg ctccttatct gcattcccct gggtccaagc ctgagatcca 540
ttatcattag ctccacttgc tgaactccag ctctgatttc tt 582

<210> 31383
<211> 408
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e01d1

<400> 31383

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attgttgcca atttccccat tccggtaata caagtaatta cgcaatcaaa agacagtggc 120
agaagaaact aaggaagaag cttacatata caagacttgt caaagattgc tagttaagaa 180
gactcaatgt ccacaccacg atgttgtatc attttaagag caacaaccac cattttggga 240

tgcttgggat tcttgtttg gttttaaaac actcctttta actgctgttg atcctttctc 300
 caaaagacta ggggcttcca ttatcttttag agcaagttcc tcaaagcact gctccacatt 360
 ttcccttggt ttagcactac attcaagaag caaacacccc aatttttt 408

<210> 31384
 <211> 306
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072e04d1

<400> 31384

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 tcaatctaatt ttgactgcat cacaatttta aacttacacc actcgttcaa agccaaccca 120
 tattgatatt tgaacaaatt ttgacaaat aagagagatg ccttaagcac caatcttctc 180
 ttcttccttc tcttctcat actccttctc atcagcagta gcacccctggg attgctgata 240
 ctcagcaaca agatcgttca tggtactctc agccttggtg aattccattt tggccatttc 300
 cttccc 306

<210> 31385
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072e06d1

<400> 31385

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 tgctgatgat tgtcttcaat tcttcattgc caactctgtc ctctttttcc ctcagagata 180
 gaccactcat tctgaacca ccaccacctt gcctttttta gaaatgttaa atgaatgagg 240
 gacattgttg gaaatgaaga gatacathtt gaggggaagg ctctgaagtt cagcaacatg 300
 catggaagac taattaccac agtaaataaa atataagact tcttttttgg tttgtgaaag 360
 gggtatttta ttaaggagag gtgccaacaa ttccgacaat gacccggtta agtggtgaca 420
 atttcatttg ttggccttgg gttctgctct tcttgaagag aggctctggg ggtgaatata 480

atgatg

486

<210> 31386
<211> 405
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e07d1

<400> 31386

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atacaaatgg aaaccgatca ggttccaccc cattagtagc tatattatca aatattcacc 180
actgaaaagg aaccaaattc cctaacactt ctttttttct ctcttttctt agaaggagga 240
acagaacata aacaaacagg aggctaaagt ggggggtttt gcttctggat gattccaagt 300
gatgaaatta caagaacacc cttgtacagt gtggcaaaat ctcatcaca cattaaaaca 360
aacagcccca aaagggtttt tttttttccc aaaaactgtg ccact 405

<210> 31387
<211> 315
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e08d1

<400> 31387

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ctaatagtac taaagttgca ctttttagtca atgtttccaa tgcttactag gcggtgaaac 120
cacaacatca gagcaagata ttgcagaact aagcattgtc aatgaatgct aatcggattt 180
cccaaaggaa actaaaatca gttttgttgt tgtcagactt cattctctct aaaacaaatt 240
gaaaaactcc atcaccattt aagattcaaa ctcttgagga agaaatatgg aggattcaaa 300
tgcagtcatc atcat 315

<210> 31388
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e1161

<400> 31388

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gggggaatta tgatctcaca tacaagggga aaaaaaccct tcaagataac tgcactcgca 180
atcttttctt acatcaaggg aaaaaacaga caaattgggt aacaatcaac taataaaact 240
ctatgggcta taataaaaat tgctgaagga agcttattgt ttactgaatt acaaagtact 300
caagcctcca ttaccacata aagatagaga ctgaattcct caacagccac cttatacttc 360
tcaattcatt ttagaaaatt gaaaacctca aggtattact tgccgcaaac aagttgtact 420
cctcaatgac agtagcctct tttttattgc attcatgac atcgtcaact tgatctactg 480
aactctttaa gttaaaatct ccaacattgt cgccatttga agatgcagtt gccgatttat 540
gaccagttga aggtctacag ggccaccaa 569
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<210> 31389

<211> 568

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072e12d1

<400> 31389

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tacatagata gggtaagtaa gcaaaaaaag agttgcaggc agagcttgta atgtatgaag 120
gaattcaatc caaagcattg ggcccagcac aagccttcaa aacggggctc caaatccact 180
gcactagaaa cttccgtcca ttcctaccgt taagattaaa ggttctccct tcaccatctt 240
tcataacgga accaatataa ccgtcgccac caccggttcc gtacaacccc tggcaciaat 300
ctccgatctc ggttggcgcg gtggggtcct cgccggcgta ccacgcgttc accagcgggt 360
tcgacgagag ctccgccagc ttgtgccga tcacgcttac catgccgttc acttcgacgt 420
ctccgttcgg cggcgtgagg tggccggggc cgtcgacgcc catgtagccg ggaacagcga 480
aaggataagc gcaaacctcg ggacactggt ttcctgagtt cccaccaag gcgttaggga 540
acgtggtacc caccttggat ggaaggtg 568
```


<210> 31390
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072f02d1

<400> 31390

aataaaatat acaaataattt acataaataa aaaggctaag ttgtttcttt tgccccctca 60
 aatatgagac aagaatcagt ttaatcccat aacatattaa agtccttaatc atgacgggtg 120
 cacagacgat gacggtctat tactttccct tctttttctt ttttctcttg gctggaaatt 180
 gtggccaaaa tacagttctt ttttcttct gtctacttga atggcgtaag ctgggatcaa 240
 atcaatttga aaatgttttg tgggatacaa aataaattta caaccacaca cacaaactga 300
 aacaagaaaa gaaaatcatg ggactgaaac gaaactggcc ccaaactaat gaggataaaa 360
 aagagaactt tagcccagat aaatagaaga agcttcaaga tttgcaaagc cagtcttgga 420
 tggcaagtcg aagtgcgtaa ttgggagtaa gaaacaggtg acttaatttc aaattagtca 480
 tgggagaagt atcatg 496

<210> 31391
 <211> 325
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072f04d1

<400> 31391

ccaaaatatt aatcaaataa taataataaa aaaaagtgcc tctgatgtgt gacttaattt 60
 actagaccac agaaaatata cagatcaaac aacatcaata tggggacatc tggcatcatg 120
 ttatttacag caacatagga gagggccaga ttaatagatc ttatagcatg gttgatccat 180
 tgtagactac aatagcttca cgaaggcacc taatcaatgc tttcaaagac cataatagta 240
 accaccaacg cttatgtgag ctttgctcat aggaacaact cttgctgcgg aaattgcata 300
 attcaatttg ggcgcatgct gcacc 325

<210> 31392
 <211> 393
 <212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400072f07d1

<400> 31392

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gaataaactg ttttttatga atacacaagg acaaggaatt aaatgtgtga gaacatagcc 60
acacaattca ataccattca tgtggtaaaa ttcaccattt tgacttaa at ctgtagtaaa 120
ggaaaaagtg agacgccacg ctacttccag tgtggatttg caatacccta taaaatgtat 180
cttgtacgta caaaaatctc ctgagacagc cctttataag gcgtacttaa acaaaagctt 240
tcactatgaa tggactttac aattctgccg cttgttacca cagtgtcatt ggctggaacg 300
agcataccaa tgatacaaat tgttcaatca atgcccacaa cttgaataan ggttcaattt 360
ccacctgagc caatcattaa tgaacaccgc cca 393
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<210> 31393

<211> 64

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072f11d1

<400> 31393

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ggggtcgtgg gttcctgctg gctgtgatct acatgaagca cttggaccag ctttttagaa 60
agtg 64
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<210> 31394

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072g06d1

<400> 31394

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gcatagaaat tagaatttcc accatttata taaattcaat gatacaagga aaaatatgaa 60
taaccggaat ttcctcttca ctatagaaaa tagacatata tgaagtaact tttgtgaaca 120
tccttttagta acaacaatt ggatagtggg aacctacttc cactttgtta ttgtttcccc 180
ggccaaatat gcaagcaatg atcatagtga ggaaaaatag ttaatcttgt ttttatatac 240
aaccacaggt ttataggacc ttaatgccat tgtttttcac aagctgagag tgggtgtcaa 300
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gaagagtttc caatgatctt cttgatctcc tgttccgtgc cctgccggat tctttcaaca 360
 actcttacaa cctacgtttc tcatcatcca catcaggatt tgctgttcct agcttctctt 420
 gtctcatgcc aactacatat tccaaaat 448

<210> 31395
 <211> 56
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g08d1

<400> 31395

cgcccttttt ttttattttt tatattattt ttttcttttt tgttttatca tccttt 56

<210> 31396
 <211> 574
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g11d1

<400> 31396

atcaaagat gaattatatg attcaaattg cgaattgtat gaataaaaca taattacgac 60
 tcaaatttcc ctgcctattt catatacaaa aacaaaagtt ccctttactg caagagagat 120
 tgctgttcct ataaatatca ctagtacatt tttggaagtt cttctactca ggagtcacat 180
 tcccctacgc tcatgaaatg aaggaaagaa acagagtatg atagaaacca acttataggt 240
 ggccagctct agtaaaaaaa ataaaaatcc ttataggtga caagctgaat ttttttattt 300
 gctgtacgac gttgcatgcc tatagtaata gctgctagta aaccttcaac cgcacacctt 360
 gccacccgtg ctcataagct aatgaaacta tattgatcga tggacatcaa gtctataatc 420
 agaagcaact tttcaacaga catctctatg aatcacttcg cttccagtag atattaaaaa 480
 atcttaggat gcaaaccctt taacaattga tgactcctaa gaattacggt tgctgtctgc 540
 tcacaagaat gcactggaat caactcaaac accg 574

<210> 31397
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g12d1

<400> 31397

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gaagaaaaga tcgataaata aataatgatg atagtaataa tattaataat ggtagtctga   60
gtctgagaga gtgaagctat cgaaatgaaa ccctaaagga catgatctcc gagaaggcac   120
tatgaacatg atttcccacc actcactaat gagaataata aataataaaa acaaaatgtt   180
cagtgtctct aaagaaagtc tcgtgctcaa tatTTatact actaaataac aataatcata   240
aaataaaaacc ctaaccata cacaactacc ggatctacat catcaaggcg accgcagcgg   300
ccaaggcgac  ggcggtgaca gattcggagg cggagactct gcagaggtgg gcgtggctgc   360
tggggctgac  ggcgggggag tcggcgggtc cgTcgctga                               399
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<210> 31398

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h01d1

<400> 31398

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cacataagtt gctatatata gaaatacaaa actgcaagca agaataatcac cggaaaaaac   60
aaacggaaca tagtcatcat ctgtttcaaa ttaatcacat cttctcaact aatttgtctc   120
aaaagacaag tatcctgtaa aagaaattaa caaacttaaa tagaaggacg tgaaatgcct   180
gatacatgtt ggTtaaagag aaaataactc aataatagga ttgcaagtac ttgggcaaac   240
atgctataat ggccctecta ctctgatgac taatatgccc ttcttatcaa tatcactaac   300
gaaattgtat taccttcaca agtcttaatc taccagaaaa gtgatgctat aattttacca   360
aggaacttgg tgcaaagctt ggtacaatct tcatcacaaa agctgaaggt agagtaagtt   420
ggtagccaga ccaagaatat cagaaccagg gaaaacaaga agtggataga gttaaagcca   480
atgactgatt cttggaatca tacctttagt atagtttg                               518
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<210> 31399

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h02d1

<400> 31399

aatcaaataa aaaaaatcct tataaactta taacagccaa acaggattgg attgcagtac 60
 aaggaaacac aaaacatatg gctcgtact ttcccaaat ttatactcat ttatgccaac 120
 tactatggga aagtgaaaaa tggcaaccaa aaaattgttc caaaaaaaaa attattagta 180
 ataaaattga accaaattga atgcctcaat ccttgaaatc tctctcttat gccacagctg 240
 gcatgtcctt gagccatgga tccagtggct tccaattga gtacacaatg aaaccaatat 300
 cacgtagctt ctccacatcc acaatgttcc ttccatcaa aacaaatgct ggttttctca 360
 tgttgtcata caccttctga taatcaagag tcttgaactc atcccactca gtgagaatgc 420
 agacaccatc tgcattcttt tgttgctcgt tatgcatccc aaaccacact aactt 475

<210> 31400

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h06d1

<400> 31400

aattaagcgt tgcttctgaa ggatccaaga gctttgattg cagaacctgt aaaaatgtat 60
 tgatggtaga ttgcacccac cgcattcca acaaacggcc caaccagta aattcattgg 120
 tcgttccagg ctttgtcgtt gttgaagatc acagctggtc ccaaactcct tgcagggtta 180
 atgccggttc cagtgcagg gattgtaccc aagtgaacca tgaatacggc ttacccaatg 240
 ggaagtgggtg ctaacacagg aacatgagag tccctagcgt tcctcttaag atcagtggcg 300
 gaaaaaacg tgtatacaag aacaatggtt ccaatgatct caacacccaa agcgggtacct 360
 ttgttgatgc catctgtgac agtgtttacc ccacctcgt acctgttgga gaacgatttt 420
 t 421

<210> 31401

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h08d1

<400> 31401

atcgtccaat tcttgtacta tataaccattc tttaaataat tcattctttt cactcaatac 60
aataaatata tacaaatgcc aacaaagggt tctattatta catttgagga agaaaaaatc 120
agggaaagag agtactatctt aacaaaaact ttaactataa cagcagaatg gcaaaaaatt 180
acaaaggagg ctgaatgcat gttgctggcc tcaacacttc tgaagcacat ttgtacac 238

<210> 31402
<211> 518
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073a01d1

<400> 31402

agaaataaat aaacaacttg agattccatt tttagacctt ctacgagtct atgacaacta 60
aatataaca ataataataa agataaaaat aaaacaaatt tacaaggcag ccattgtcct 120
tacttcttgg ttcttccac tacactttcc aaaaattata tatatatatt ttttaaaaaa 180
gtcctccact tccaaattta ttattatctt tttagtgac cttctttctc attctctacg 240
ttgactcgaa caccaacccc accaccccggt ctgcgttctc ctgcatcgca gcctgaaccg 300
cgtgcctgtg ctcctccctg tacgtcacta tcagcattgc aggatcgtct ggtgcgcgct 360
ccacgtgctt cctcgtggg caccctctaa tcgtgctgca cttgtagtaa ccccttggtt 420
atggggaacc cttgatcggt ttctgaccgt acttactgca cgagtactcg tccggtggaa 480
tatcgcgac ttttgaacta atcgccggca ctcttaca 518

<210> 31403
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073a03d1

<400> 31403

agactccagc atcctcatta aaaactcatt ttttgaattc agggagagga attcaattaa 60
aaccaaagca ggtacactct gtaagtggat gtgtaagacg aacaactgga cagacacaca 120
tagtagtaca atgtaaatca tcaaacaata ggtccaacca ccaggaatat taaaggtaca 180
attcaagtaa gatcatcctc ctcaagttct ttggctttca gcttttcctt cacccttaag 240

atgtatctta aggaaatcta agcagtcata aataaagctc ctaacaagag ccagctaata 240
 aaaacacaat cacttggaat aaagatcagg ctccccatt aatcaagaca aatagcgact 300
 tgtctcccaa cctttccgc ccctttaact ctggcaattc aatcacacaa gcacactcca 360
 caacatgcac cccaacacgt tctagaagct taattgcagc acctaacggt cccccagtgg 420
 caataagatc atctatgatt agggctcggt ctccaggntg tacaaccctt acatgcatct 480
 ccattttgtc tgggccatc tccaaagaat actcttctga gataaccctc ccaggcaatt 540
 tattgggggt tctcatggg gac 563

<210> 31406
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073a08d1
 <400> 31406

aatataaata ttgtgtcatc tttttttggt cattcgggat gggtaatata ggcaacaaaa 60
 ctagcagaat ctacagcttc caagagaagc atttgaacat gggaaagtgc tccgaaacta 120
 aaacatgttg agaccaacac acttcacgtt tagctaaaat atcaacattt ttttaccttt 180
 agtatggtag aagttaagca gccaatcttc attcttgaaa gcccctatat attataggtg 240
 catacggatt gctacctgtt ttaggccttc cttggtagca gagaccaact tctttccctc 300
 aaattcctta agctgaccaa cagcatactc atcaattgca tcaaccatgt tgagaacctc 360
 atacccttc ttcttaagct tttcaaggaa gggggaattc tcgacaactt tcttgctttc 420
 accagtaatg tagtag 436

<210> 31407
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073a09d1
 <400> 31407

ggaacaaaga atttgattta ttattaaggc cccttaatac acagatacat tatcaactat 60
 aaaatanata cttaaaaaaa aggacagaag tcagtaaaga atctaagaca taaaccattg 120

catattttac atagaccatt caaatccaac tcagaaagt accattctct tcatctctta 180
 aaaccttcaa cgtttacatt cagcaggaag accttgtggg aatcgcttga gatcactgca 240
 gtagttatag atcatgaagt acttctgaac ccatctcagt cttcttctgc tataagcatc 300
 aagctcattt gcctcatatt cagccccaga atttgaaatg gaagacttgg atgagaactc 360
 aatggccttg aaattgcggt agtatgctgt aaaggggtgt ttggaccaat cagttttcac 420
 caatccttct ctgggtggccc agtcatcaac attccagagg ctaaaataga ttctcatggg 480
 ctggtttctt tgaaaaggaa caccaagagg gttagcattc ttgaataccc ttatgg 536

<210> 31408
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a10d1

<400> 31408

gttggagtga catggaaact gtcattctta tggatttga aagggatcac aatcaattag 60
 ctatatccat atgtacaagg aaattaaaat taaaaaaaat cattattcca tagttttggc 120
 agcagaatgc tagctaaatc actagcctat gaggaatta acaggcttct gattgctagc 180
 atacacttcc ttagattcag acagaaactg tgattttaaa gctaaaagca aaaaacaaaa 240
 gaaattgagt atgtgaccac aaggaactgt caaatttata gagttctcca atcaccacat 300
 ctcatggtaa aagcaacaaa caagctaaat gtaatatctt tgcattggga aacacaatgt 360
 tttccatgcc cccttgactt tttctttcat tcaattcaca tgctgcctaa ttgtcataaa 420
 agcgggaacg gcatctatgg gatctgcgat aaccactgct accccttgaa gagccactag 480
 tactaacaat ctcatcatcg atccttttta tcctataatc tgcatactcc atagatacta 540
 cagaacc 547

<210> 31409
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a11d1

<400> 31409

gagaaacctt aaattgaagc aaaactgaga tgtgggtctg ggaagaaaag ggaactcaac 60
 aacatttatg tcttaccctg accatattcc cccaaaatat caaacgcggg aaaaataaag 120
 cacaaggagg aacaggcttc aagggtatca tgaccgtatg aagaacaacc taaatttaca 180
 cttttaaggc ataaaattaa atgaaccttc taatccagga aatccaatta ccatagtctc 240
 tttcctgctt aagttcaa atagagaaccc aaaattgaaa ataggacaga gatatgtcaa 300
 aagggttctg ggaaggcttc acttggcact caaggttggg aaatgcccgg gatcttcaat 360
 ggatggagca ggtgcattgt tgggtggcact ttcattggtaa cccgctccgc ctctgaacc 420
 acggccacgg ccctaccac gttctgggtt atagtatgcc tccccctca gcag 474

<210> 31410
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073a12d1
 <400> 31410

aaggcatatt taaaccctt ttttgctaaa caaaaaaaaa ccccaaaggg aagttcttta 60
 taaccctttt tcaactacaca accagaaggg tttaggactt aataggcgta ctacctttgg 120
 cactggacat atgccccctc acaaaataaa aaattctccc accaaaaggg atttaagggg 180
 cttaaggggg aaccccccg atttttgggg gggggggggg aaaattccaa aaaatttttt 240
 ttttttccaa agaagtttgg aaaccctccc acatcatgta ggggaacggc ctggaaaatt 300
 tctttaaagg cccttttttg gaaatttcag ggttaaggcc cccgtgtt 348

<210> 31411
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073b01d1
 <400> 31411

cttcgaaatc atcactctta taaccagaat gtttggtgct tgccaaaaaa aatctaattt 60
 ggcatattac aagagacttc acgaatcatg caagttcaga cgtacatacc aggtggcaaa 120
 agaaaagata ttttacacac aaaagacaca ttaaattcag caaatccttc tgctgtttcc 180

atccccgcca tacacaaagg ttgatgaaac tggagtgggt tttatctggt gatcgtgtag 240
gaagcattga ttggaagaga ctttttttct tctcagtgtt ggtctccttc acgtaccatt 300
cgttggagaa gatgagtcac ttttcttctc cccgttggca acctcagcat gattatcctc 360
atcacttcca tcttccagag aagccttttg ttgcagctct ttgaccttgc ggaattcatt 420
atagtgggccc tttctgtgct ctttgaaact caaacttcta tcttctcat cctcttaagt 480
ttcttctgcc tcctcctc 498

<210> 31412
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b02d1

<400> 31412

aaaaaggatc ttgggattcg aaattagagt ccgctgtaaa aacagcttca gtacaataaa 60
aatttcataa gacatatagt aactactata tcttggattg ctccagggtta catacggaag 120
tggtccataa ttacattata aatgcgttat gcataagtcc gtgaacttgg atcatctatt 180
gaatataggt atttacatta ttatgtatga ttatgattat cattattatt atgcttggat 240
tctccatgga attacacaat acaacatctt accaccaggc ccttttgatc aaccctggct 300
tcttcattgc cttcaggagg ctgagttagc ttcctatctt gaggagacat catgtctctc 360
ttcaattgaa tcaaaacgct ttccattgta tgcttacgtt tccaattagc tagcttagga 420
aacaaatgtg gcttaaccgt tccagtttct tgattgacac atgtcatggg aatccttgtt 480
tgaaatctaa cagatggggg attggctgga taattccttg ccacaaaaca atttcaact 539

<210> 31413
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b03d1

<400> 31413

ggggttgggg tttttttttt tttttttttt tttttctttt tttttttaaa aaaaattttt 60
ttgggaaaaa aaaaaacccc cccccctt tttttttcca aacacttta cgggtaga 120

cccccccca aaaaaaaaaa aatggggaaa aaaacttaat tccaaagggg gttttggggg 180
 caaaatcacc ccccccaaaa accctggttt tggccccaca cattggaaaa ccctttttta 240
 aaaaaaaaaa ggggatttcc ccaaataaat ttcaaaagtt aacaccaaac cccttttttt 300
 ttctttttta aacccaatc aaagctttct cttttaaaaa actaaaatta aaaaagggtc 360
 ggaaaccccc ttataaaac aaaaaaaaaac cccaggatc ccccccttg ggaaaaattc 420
 ccgccaaaaa aggggggaac caaaaacccc ctttgcccca aatccgatat ttt 473

<210> 31414
 <211> 382
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b05d1

<400> 31414

ggaagggaaa aagggggatc gttaaattga attgatgggg gggaaaaccc caatttaaag 60
 attccaatc ataccaatt ttgcccac acaaaagaat tttaaaaaaa aaagactttc 120
 tttttttact ttttttacc aaaacctaag caaaatttaa aaacaaacga cccttttttt 180
 taaactcttt aaatccaaaa gctgatcaca atcaaaatca agggcggttat ttatgaaagc 240
 tccataagac ttcaaacgac caaaagccgg gttctccatt gatgttctct tcaaacatga 300
 atttactctt caatagcagg gggcacagac tcagccaatt tgcggtactt gagagcataa 360
 aacatcttga ggtaacgttt gc 382

<210> 31415
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b06d1

<400> 31415

ggtaaagcaa ccattatcca tttcacctct gcatttcaga gttctggaag agttacatca 60
 ctaataaaaa tatacacacc accctaact tttagaaggt cccactgcc actacaaaaa 120
 accaagccct accataaaag cgcttccatc acgttccact aacccccacc aattgacaca 180
 taaaggaaga gcatatcaag tgaacttga caatttcttt ccctttacat gaaatttatc 240

aagatggggg ttttgcttgt gttttgaagg gcattgacat caaacctgt ctagacaaaa 300
 gttgaaagaa cgacaaaaag gagaagacta tggcatccta ctttgaatgc aactcgatgc 360
 gaaccaatga ctaagattaa ggggggttga aacagacaaa tttcgtgtgg gtcctagacg 420
 tgtgttaggt gagcccttga tgggaccact ggatggtgca tctgtgccag aggtctgtct 480
 atg 483

<210> 31416
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b07d1

<400> 31416

ccccaaggga aaaaaaaacc ctcccctttt ttattacaaa aattttcccg tatccaaagg 60
 gcaatccatc aaacggggtt ggaccctttt ataaaccttt taaatgttta aaaaaccctt 120
 tttttgccag ggggataaag gcccaaaatt gggacacaaa aacaaaagtc cagttttggg 180
 ataacagggg gggccgggac cttccaagga aagtttaaaa ggcaaggacc gaccccaaaa 240
 gccctttttc tttaaagtct aaaggggccc aaaaaaccg gaggcagggg ggaaaaccct 300
 gggcattcaa tttttacaaa agtttttttg cgccaaaaac aaatttttac cgggttaaaa 360
 cattccggga aagggaatcc cccatttgg ggggg 395

<210> 31417
 <211> 369
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b08d1

<400> 31417

ggggtcacia ataccataaa ttcaaaataa aaacctttat cagcctatct aaaccgggtc 60
 aagattaaaa ttgtcacatt tgcctaaaac attttacaag gacaaaattt tgcaaaaaac 120
 agtaacctgg gttttaggag agaattcatt ttcaattttt gaataccatg aaaaccaagg 180
 ggaacaattt gcctgttaaa aaaattgatg ctgctggggc ttgggctgat aaaaatccct 240
 aaaaagggcc ccctttatct gcccttggca cctcacattt ttttattttt gaataggggc 300

tgggggtatatt ggacaggatc ataaatgggt tttggttagg catccctact aataaggagt 360
tcctactta 369

<210> 31418
<211> 474
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b10d1

<400> 31418

cgaagaggta atttatttaa ttcattaacg caataatggt gagggtaatt gataagtta 60
aagaagaaat gcctacatgc atccccacgg ggataaagtt ttctcatatc ctggcttcct 120
tactataaag gtcaaaagggt tcctgttcca gaaagactga tccagatgta acaaaggata 180
gtcttttttt tttttctaaa ccgaagttgt caagaaaaag ttgacatcat ctcatgcata 240
aagggttccc accaatctgt gcaaactctgg ataactcatgt gagaaaagca agaagccaca 300
gaatccaggt tttaaatttc atactgagct cgatcaccat agttttatttt tgatccagaa 360
aagtacgaag acaactccaa aaacaatagc aacagggggcc cacttccgaa tcagagcctg 420
ccggttttaa tctctagcct tatcagcata tatgcgagat tctgatgata agcg 474

<210> 31419
<211> 510
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b11d1

<400> 31419

cagtcatgaa tttaaaatct tcctttcttc tttgtcaaat tcagggtgca ttcaccaaac 60
taattgaatc atgaatccaa aaaaaaaaaa atgaatccac aaatatttct tttgtacata 120
gtcaaataca tctacaaaat attcttatga acatgtgggt caagcacgag aagagcgaaa 180
taatcgcttg atgatggcaa ctttggggag ggaattcctg ttgttgatgt gagtaatttt 240
ccgagtggta actttcccta ttgatggtaa tctgaaagta agtggtactt tcttttccaa 300
aacgttaatc accacagact ctgtctctac attcattttt gcaataatgt cagtaaccct 360
cttctggcac ttctcacatt gcatgtctgc agagagaaca acctcctgaa cctgaggcat 420

ggacaagaac tccatagaag ctagactagt cccactccca ccaagaggaa aaccctttga 480
 tttttttaca ccaacaacca ctccttgaag 510

<210> 31420
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b12d1

<400> 31420

gagacaaaca aggataaatc ccccttgaga tcaattaatc aatagctggt cgaagattac 60
 aaatcacaga catacaaagg catgtagccc tccctgtgat ccccgcccaa tattttgaat 120
 aaaccaacaa cacattacac aacttatggt tgagaaccaa tatttttaac aagttaacca 180
 acaacatatt acgcacggca atttaaagca aacataatgg ctgataatta accaaggggc 240
 cacatgcaac acaccacaca catcacaact ttatttagcg tgaaccactt agggatcatt 300
 ttaacgagcc tcaacaagat gagcctccac gttcttgggg agtttaacca ccaaactttt 360
 gtacttggtt ggctcagggg cagtgtgatc caccttttca tacaagaaag tccacttcac 420
 aaggctgtgc tcatcacctt ttggtaaaac atgaacgata accttgtagc tcttatagta 480
 cttcaacatg aca 493

<210> 31421
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c01d1

<400> 31421

aatccaaaca attggaactg acttccatac aagctaaatc aacataagca taacacaaaa 60
 tgagacaatg atggagaaaa ggacctggtt acagtcgttt ttcgttactg gacaagtctg 120
 ttttattcag agcagagtca caagcaagtt caaggggaaa cttagttaa cttgagtaca 180
 tgcattgatac aaaatgagct ttctataaac atactagaat tatgattgca gcttttttta 240
 acaggactag caaaattatg cttatttgca aaccctgtgag gtccataagc ttatcaataa 300
 ccttccgata tcttttcctt ttcctataag gtctagcaaa aaattgtccc agact 355

<210> 31422
 <211> 451
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c02d1

<400> 31422

attgggaatt ctagacaatt catatagtac ataaatatca gatcatttgg caaagctgag 60
 atctgatgtc ttagcacata catgacactc atccgtcggc ataattcacc acagcatttg 120
 aagaaaatga ttcctaaata tgcaccagat agaaatatga acggagccac tgactgggtc 180
 taaccgcact taaagaacca taacagaaat catgaaattt tgacatcaga tgagataggc 240
 agcagtatct tgcgccacat attatggtag ttatggaacc gactgagatc tacacattaa 300
 gcagatatgg accgggtata gtcagctgtg caaccatcat ccgaggggtga catgcctcaa 360
 gcttcggcct tgagtatatg tcgcagaagt agcagctatc aatgcctcca ctaattaact 420
 accatgaagt ggtaacagca atgaatgtac a 451

<210> 31423
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c04d1

<400> 31423

gaaaaaagca agtaacatta aggggggatgg ggatacacaa gataattcac attatctgaa 60
 gtacattgca ataacatata cttcaccaaa cacaatttta aaaactctca aaagtccaca 120
 agtcattcctt ttctttcatg ctcaattgcc ggggaccaa ttggtggcgt aggcccaagc 180
 attgttgttg actgggtccc caaggggatc agcaagggtc tccaatggac ccttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cggtcttgag 300
 ttccttcacc ttaagctcaa caaaagcctc tgggtcatca acaaggccca atgggtcaaa 360
 gctgccacca gggtagattg ggtcagtgc ctcaccgagg ggcccaccag caata 415

<210> 31424
 <211> 535

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c05d1

<400> 31424

ggaacaaaga atatgattta ttattaaggc cccttaatac acaggtacat tagcaactat 60
 aaaatagata cttaaaaaaa aggacagaag tcagtaaaga atctaagaca taaacatagc 120
 atattttaca tagaccattc aaatccaact cagaaagtga ccattctctt catctcttag 180
 aaccttcaac gtttacattc agcaggaaga ccttgtggga atcgcttgag atcactgcag 240
 tagttataga tcatgaagta cttctgaacc catctcagtc ttcttctgct ataagcatca 300
 agctcatttg cctcatattc agccccagaa ttgaaatgg aagacttgga tgagaactca 360
 atggccttga aattgcggtg gtatgctgta aagggtgctt tggaccaatc agttttcacc 420
 aatcctcttc tgggtggcca gtcacagca ttccagaggc tagaatagat tctcatgggc 480
 tggttctttg gaaaaggaac accaagaggt tcagcattct tgaataccct tatgg 535

<210> 31425
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c06d1

<400> 31425

gataacatcg aaaaaaactt tgatcaaatt aataactggg gcaaaagaaa ccatcaaatt 60
 cctttgagaa aaaggaacaa tagcaaacct agctcattaa tatacataca cgattaaata 120
 aacgacacag atcgatgttt atggccaaag ccaaaattaa ccacggtgag tagacagtca 180
 acgatttgat tccacagcta caacaaaata gcaagtgtta acaaaattac ggaattaaaa 240
 accgaaacca aagcgatcgg atgcggatca gaactacaaa tccaaaagag gatcgtaaga 300
 tcaaacggtg ccgccagatt tggagcggta gagtttgccg aacacgtgga gcgcggtgac 360
 gaagccgatg aagcagaggc tcatcaccag caccaccgtc ggcgaaatct tcagccccgg 420
 agcatcgccc gtgtagaacc tcagcatgtt gctggtgccg cctacgacgc cggtgctggc 480
 ggagctg 487

<210> 31426
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c08d1

<400> 31426

agaaggaaat atcatttgggt ataaccaatc gggttgggtca gcaccagcat ttaataaaat 60
 ttacagtagt taatagtttg tttttaaggt gcaagaatca cttggaagta caaaatcgag 120
 aagaaaatgc tactattaca aaatacagag agacatcacg gatgagtttc acatctccca 180
 gcatcaaaac ccaacaagaa tttgtctctt caaccagtc tccttagcat ccccggttgta 240
 ctaatgtgca gatcccaaga ataagatgac atcatttgaa accaaggaaa acactatgtc 300
 atagtaaaaa ataaacgaaa caacctatag atatgacaca aagaaaaaag tgaaaagggg 360
 tatcagtaag gagtgtgata ataccgggtt ggaggtccca ttccattaac tgggggcatt 420
 ccataaggca tcatgggcat agga 444

<210> 31427
 <211> 332
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c09d1

<400> 31427

acgggaaggg aaatttttat attattgtaa ccaccaaaaa aaacaacaaa gccccactag 60
 ttgacgcctc ccaactttgt taaacaaaca ataccttcaa aacattcact gaatttcaca 120
 cacacacagc tgaacacacc acgttttaaac aaaagaaatg ggctccctta aaaaaccatg 180
 attcacaaa atgaaccctt ggtgaacatt tccgaatttc aaccttcac taaaagcccc 240
 cccggccaaa caagccccac ccaaattgga atcacaaaa atgtatgtat caccggaag 300
 cgcaaaaacc ccacccttga aatggaaaac ac 332

<210> 31428
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c12d1

<400> 31428

gggcactcta aaacatcagg atttcggaat ttatatagct ctttaaccat aattccctgg 60
 atacaacatg tatactaggg tatacaccat attcaaagat agctaataaa tacttgactg 120
 ggtaattaat atcacacaaa cgtaaagggg caatatatag ggcaaattatt tataagctta 180
 atttattcac agaaaccatg agtttaaagc atctttatac aaaatattcc acaagaattt 240
 actttattac cacatcatta taggaaaagg tcatgataaa ggggggaaat tctattgaat 300
 gcttgggtca agatgttttt ataggatcaa aggggggtata taaattaaac cttttttttt 360
 aatcaatata tatatattgg tcacacattt tatatatata tataaaaggg gcttaacaag 420
 ttggataggc aataccacaa gaactaacgg tttttt 456

<210> 31429

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d02d1

<400> 31429

actacaatat atggttttgt tgtatcatca aatgaataga ttgcaatcag acccaacttt 60
 cctcttttaa gactatgtac acagataact cttctaatta aggcaaacca ctcaatagca 120
 gtaagaaaat aaaagcatgc acacaagtgc aattaactct tatcattggg acatcaacat 180
 ggctctcca cagagtctta ttagcattcc accccacatt gtttgagcac tggaccagtt 240
 tgcttgggca agaagggatc aatcctgacc caaatcaatg agaaaataga tgctagaagg 300
 attgaccaca aactacaat ggtaggagtc ctgttttgct ttcccatgag acctttgagg 360
 aaaggttaca agtgaccaat gaccagaag gcaaagaaca gcttcccaaa caaaggtccc 420
 catgaaccat atccattgat gatggcatca gagacttcgg ccacgaatcc aacgatgttc 480
 aagattatga gag 493

<210> 31430

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d03d1

<400> 31430

gaaaaacagc attatattat caagacacgt tttattaaaa caggggacgg gatcattacc 60
 aaccaaaaac caaaatacat tagaacaaca caacacaaaa ctactgacg cgtacatgct 120
 atactagtcc agcaaccatg caccctcac accaagtttt tagcaagtat agtagttgaa 180
 caacacatgg ggccaacaag acccttaatt ggaaataaag gacataacac aagcaagcaa 240
 acataagtaa cggagaatgt aggacaaatt attcttcttc ggtttctgat tctgcattct 300
 gaagccaatc aatgaaaggg tgagcattct tccaaatcct agagttcttg ttatcacctt 360
 tcagtccctt ttgataccac tgcactatgg tgttcttctt ctaacacatc agcatcgtag 420
 agtgccttta gaaccagggc aacctcttc aaagcatttg aagtagactt gcaagaaaac 480
 ttttcaatag catgaagcaa caacggctgg ggatcccttt tccggcacag caacaga 537

<210> 31431

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d05d1

<400> 31431

gggaaaaaca agtggggata gagattaatg tttttaagca cgggataatg tacaagatga 60
 gcaacatcgt tgaagctgaa gggttcttcc tagtccatga agcaacaaga tactgcactg 120
 gctgcttcta aaatttatag cacatgaaca aaaggggatt ttcaagttaa attacatttg 180
 gttatgaaac actatttgac gcttgggcac ttttgcaagc gtttgggctt acaccaggca 240
 atgggaacca catacaagaa tatggtcctt gcagggctac cccaacagt ccaaaggaat 300
 tgggtcatcc caactttttg ggcattaaat agctcaatgg gaatattcat gccaaaaata 360
 ccggccacaa caacaaaggc actcactacc agagttggcg tgggcaacat gactcccatt 420
 tggaggagat ggggtctgttt gtcatc 446

<210> 31432

<211> 487

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d06d1

<400> 31432

gcacaacaaa attaccccat acgggtaatc acagggatct caaaaatggg acgtctcatg 60
 aaaattctat agtagagatt tctgatattt ttaggccaca acagaccata ctccatttag 120
 aggtaactct agttcactgg ctttaattca tcctcttgcc gctgatgcac gtatagagaa 180
 cctctttgta taatgcataa atagaaggga aagcactctc cagcaccaga ctcaattatt 240
 gtgtgaagca tccaattatg atgctcctac aaacttggtc aaggctgatg tgtctaaacc 300
 tgcaaagtcc ttcacagctg caagcacagc aagtccaagc ttcacagcat catcattact 360
 aggtgcctca atgttaaggg gaagtacagg atcatggagt gataatctaa gaagaaacca 420
 tccaccatag ccagaaactc ggacccttc ttagttcaca ggagccttgt gcagacttgg 480
 atcagag 487

<210> 31433

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d07d1

<400> 31433

gaaagcacia catgaagtag taatatatat aaccactgtc aaggactatt cttggatttt 60
 caatcataca gaaagaaaat gacaaaatat tccaaactca aactccttac ttatttcata 120
 aacgctgcc taggtttaat ttcataatag aagaaaggtg gtagctagtg gtagtgggtt 180
 aaaaaccatg aatcttgatc tggtccttcc taacaaggcg agcatgaatg aggaagttag 240
 aaacgttctt gcgctgatca ccttgaggtt ggataatctt gccaaagctcc ttgtcatgca 300
 caacattgcc attgcagcag aactctttct tgagggtctt gaggatcttc tcgtagctga 360
 actctttctt cagcccttgc actgtggtca gactcttctt cccattcctc tgttgtagtc 420
 ggatatgcac atactctttt gccccgggag catctgtttc ttttgctcc gcaaattgggt 480
 cgaaagtgct cgtagggatc tgataaatac ccactt 516

<210> 31434

<211> 438

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d08d1

<400> 31434

gacagaaaaa tttattgtca tgctataatt caataaagcc tcgggggtaa cagtttctaa 60
 taataaaact tctgaacaga attcgcacg tcctaaatat ttgatttttt tttcttcagg 120
 tcctaaaaca taattctcct aacaaggaac aaaccatagc agtcacatg gatgaaaaaa 180
 aaaagtaaat atttcgatat gttaaactga ctttcagaga tcttcactt aggaaatgaa 240
 aaattcactt tttgaaaaag gaaatgataa tgaaagtctt tcaaaaggaa aagatgagca 300
 aacgttgga atgaaggat ccagatagca attcataggg tgaaaaaaa caattatcag 360
 aaatcatcgt catcctctc tgcaatatgc ttagccagct cttgctcttg ctgttgctc 420
 tctcttttct tttcagca 438

<210> 31435

<211> 543

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d09d1

<400> 31435

agccacagaa aatactctcc cttggtgatt ttaatgtcag ggaggtgaag aagcatcaaa 60
 taaaattcca gaagtcaaaa ttttggttat tgtttaacat aaatatgtaa ttctaacaga 120
 aaaatctgcc aaaaaaaca tactccatta aaccaagcag cagcatctca ggcttctgag 180
 attggatact caaatactac atcttttcca gtaagcttcc tgtaaaactcc agaaaaggtc 240
 tccagcttgt actcagtgtt gttgcgctcc ttgggggtcca agaaaacctt cattattttt 300
 gagccatcaa ttctatatct ggcccgtttg ccaacaatct ctgcaggata cacaacatcc 360
 tccagcatgg catcatggac agcgggtcaaa gtgcgggttc ggggtcgctg aacagcagag 420
 cttttctttg gcggtcgac gatcctcctt gtggcaatca agacaacatc cttcccacta 480
 aacttcttct ccaactcttt gacaagtcga agatgaatct tgcggaatgc cttccttaat 540
 ctg 543

<210> 31436

<211> 439

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073d10d1

<400> 31436

gaaacaagaa atcttatttta gtctgggaat attcaccata tcatggccct tcccagacca 60
cacaacacaa ttacatttat gaaaaggaaa atgtttctta gtatattctt gcatcaaaag 120
agtctcacac cacacattaa agacagttaa acagccaaca agaggattca agggttttta 180
agggccttga tgatcttttc agcactggag atggggaact ctctccact ttcaacattc 240
gcaaccttca ccttgggggc ttccaccagc aaagcaaacc tttttgagcg gacgccgaga 300
cccttgctag tgaggtcaag ctcaagacca agggcattgg tgtttttggc tgcaccatca 360
gcaaggaact taacatgctt gttctctggg aatgttttgg cccatgagtt catcacacat 420
ggatcattcc cactgatac 439

<210> 31437
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073d11d1

<400> 31437

gttcaattct actcaattat caaatgatac aaaagataat atccaacaga aacataaaga 60
taaaccacat gaaaatagtc taaaagaacc tcaaacacaa tctggcagta aaaaaccaac 120
gggtacgtct ctactaaaaa cgctgatag acaccaagta tttgtaactc attcat 176

<210> 31438
<211> 479
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073e01d1

<400> 31438

gaacatactc tgattcaatt tcctatttct gtcaattaaa ggaaaagaga gagaaaatac 60
ggacaccata tattacagac caatatctcc aatagacgag cattttaacc cgaacttggt 120
tttcaaaaaa ggatacttga accctacaag ggacaagggg tggttatattc gtaaacattc 180

tcagatctgt gctttacat catccaaatt gtaaaaaata aaattaaatg taaagactgg 240
 tgttccaata atgtcagttt cagcatcatg caggatagac atcgatcatt gttgacgctt 300
 ggtacggtgc aagagagcga gaagaatttt tttccttgga cccataggaa tccaagctc 360
 tttgaggtca ttttctccca tctgcttcaa tgcagtcata tgcacttgct cagccttaaa 420
 gagaatggca tattcttgaa gtcccatgca tgtaacaggc catccaagtc tgggagact 479

<210> 31439
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e03d1

<400> 31439

gttggtaaag aaacacttta ttttattaac tcatcaaacg taaggaaacg aaacatcatg 60
 acagtatagc atttataacc attaattaca taacctttat ttttgtttcc cccctcattt 120
 tttttggtcg ttgaatttta aataacaaaa acattggatt ggacgtgatt aaacatgatg 180
 ataattgaaa caaattgtga atggccacca tcatttacag aaccaataa tgcaacgccg 240
 tggacgtaat tgtcacataa ttatgcagcc ttgtggattc tcttcgctga aatattgatc 300
 accacgggtc acataacagg gtctgcctcc accgtaacta tcatatacgg gccttgcata 360
 gtaccggtcg taacagaaca tgggcccacc gtattcgtac ccaggcccaa cgggcctgcc 420
 ttcgtagcac ggaggaggag catagagcat cccaactgga acc 463

<210> 31440
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e05d1

<400> 31440

atatcataaa caagaaaatg tatcatgttt acgtattcaa ggggccgggt tttctcagaa 60
 gataagtgtt taaattacac ttttcatata agaaacacca aaaaaatgga gaaaataaaa 120
 aaaataaaag gccaatgttt gaagcactga tctacttaag caatctttca ccctcatgca 180
 agttgcaaaa tattcacctt tgtagttgta tgccctaaga atctcctcat tagtcaagta 240

cacacactat ccaatttgca acacgggcga aatttgaaaa caacgtgctt caaaaatccg 300
 aacccggcaa ctctatacat aataattcaa taaaagtaat gatagttgca catactttac 360
 tcgcatgctc ctcaaaatac tgctctccat gtcattaaac aagaccactg caacttgctc 420
 tacatgatct agattccaca catattcaca cataatatgt gtaactcatt tttcaattga 480
 taaatctaac aagtca 496

<210> 31441
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e08d1

<400> 31441

cttggggccgg tgtaatttta atttatTTTT tcttttttcc cccacccaaa taccaatatt 60
 acgccccccc aaaaaaaaaat taaaagccct tcttacagaa ccccaaaaac caacaaaacg 120
 gccgccatac aaaaaaaaaag aaaacggaaa aacccccctt ttccccaaaa aaaaaccctt 180
 acaaaaaaac ccccttcccc caaatggcca aaaaacaaaa aacccccaac cctaaaccct 240
 acaaaaaatt aaccaccccc aaaaggccaa ggggaccccc ccctaccac aaaaaaac 300
 cccccggggg ggaggcaa 318

<210> 31442
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e10d1

<400> 31442

ggaacacaaa ttataggga ggggcaaacc aagccaaaaa ttgaacta caaatagaaa 60
 gttgacattt aataaaccaa agcaacacaa cgcaggaaaa gtcctgaaac tcgctgct 120
 taacaaaaat gtaatcagg gttccgacaa acacaacaca ttaaaacaca gattaataaa 180
 agcaattttg ccaccgtcga tcaaaaaccc atttttggga acaacagttg cgaaatgatg 240
 gtggagactt caaactttgt ccgaaaaaca agctccctat aaaagaagac acaagagtcc 300
 agaaaagaaa ccaacattta ttggaaccaa catccccga tgaaccagcc cgcacgattt 360

actttttttt ttgggcagcc ttggtgacct tggctccggt aggatccttc ttctcaacgt 420
tcttgatgac tcccacagca acagtttgac gcatgttctt aacagcaaac ctaccaa 477

<210> 31443
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f01d1

<400> 31443

aaaggaccat tgatggatat attaattaac ttaagaaagc caaaccatgt aattactgag 60
agcacatgca cctgagagct tacttaacta ggggtccatga tgctaattct tcatacatgg 120
atagctctgg caggtatctt attggatgga catgcatgcc attaaacgga ttctcatgag 180
cccgtttaag tatgatccgg ggtgaccca ttaatcttgt gctcaatcct cttatgatgc 240
aagaatccat agcccagtct gttgacctaa ctgaaatcag gacgtttgcg ccaatgaccg 300
aaattgaatc gttgtagcac cggattcctg gtccagtcac atgtgcctgc tgggtggcggc 360
gcgggcctgc ttacaaactg gcctggccca ttttgatggg ccttgtttta atattcaggc 420
ca 422

<210> 31444
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f02d1

<400> 31444

aatcaagtaa tttcaaacca tttgagtata tattatttta tgggcttggc acttaacaca 60
gtacacatgc atatatagag caacacattt caaggaaaca ttcttcaaac catactgatc 120
ttccaaaata aactggaaga tgattaactt aaagacacac atatatatat aagccaaaag 180
catatatata tataagacaa gtagaaggaa tatgctcata attggttgct tatgcttcag 240
ccaaagagat gcttggtggtg cttctcttcc ttcttatagt caacctcatc atcataccca 300
ccaccacttg ttttgctgta cccaccatca gtggtagtgt cagggtagac accaccacca 360
ccagcggcgc catagccacc acttggtttg ccgtagccac catcagtgac gtcagagta 419

<210> 31445
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073f05d1

<400> 31445

ccaatgacaa gttaatttat tgatttagaa gtacagagag aggggagtta ctattcaatg 60
 gtaggacgcg acaatatagt agtatgtgta gagaaagaag ggaaggacgg tccacttgat 120
 aagaaggaa cacaattccc caaagaacgt gagttctgat ttctgctgtg acatttgttg 180
 gtaggtaata tgtaaataat gttgtaagtg ttctttgagc ttgaggctctg aacctttgtg 240
 agcttcgaac tcgactcacc taaacttttt tttttatata aaaagaaaag aaaagaaaaa 300
 gaagtaaaga ggacgatata atgcttcgcc ttttcaccgt ccttatcgac aattgatgac 360
 aaaacaaagc ccaaaattac catcacaaat tcttcaactt caacaacaga cacatatcgc 420
 atagacatag acagaggaca cagacacgaa acattactta ggaagaacct tnttgaatga 480
 cttatttgga ggagtttttg gagc 504

<210> 31446
 <211> 532
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073f06d1

<400> 31446

aaaggagagg ggtccattga attccacatt gtaagcaaatt tggaatagca tgtgaatatg 60
 ggacaaatcc aaatattgct gctgcattgt cacataatct acagaacctt gaaaactaac 120
 agcaatcaaa tatgttcgcc atttgaatt tgaatacaaa tacagggcac cgataatata 180
 accctatgta cagagccaat gtctgactga aatttgatac agaacattat ctattttgta 240
 tcataataaa atggtaaaga tctttatgtt acgtgcagca ttatgtgaag aagggggaag 300
 tgcacccagc tgggtgcttta gtccttcgtc ttccctttta cttcatcatt ggctccttct 360
 gcacgttcac atttccttaa actgcttaag cactgctgac cttgttctta cgtccgaagg 420

tccaatgggg tttcgctgga gtacgcctta atgccttcac tccaaggngt tgttcttctgt 480
cctgagacaa gttccagcgt aagtgttgca gatgggataa tctgcagggc ac 532

<210> 31447
<211> 339
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f11d1

<400> 31447

cgggggaaaa aaaccccggg gcgttgaaaa caatgaaagc cccactcact tttttggggt 60
ttttggggcc gccagaaaaa aaaagggggg gtacccctc tggggcttgg aaaaccctcc 120
cccgaagggg ggggattaaa aacggggggg ggaaaggggg gcgaaaaggg aaaaaaaaaa 180
aaggatgggg attacaaagg aaaaccccc agggggagct cttcctcttg ggatggttga 240
aaaaggcctg gaaaccatca ggcgggccgt tttcgggggg ggccccctt tcctaattctt 300
gaaaggggag gggggccctt ataactgtag gtagggggc 339

<210> 31448
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400073g07d1

<400> 31448

ctgggtctgt ttttattata tttattttta aattttcttt ctttttttat atttttttaa 60
ttaatattat ttttttataa cataaaaaaa aggggcgcca aaaaaaaaaa aagttcaaaa 120
aaacaaataa aaaaaacaac aaattaaaaa aaaaaaaaaa aatgaaaaaa aaaaaaagag 180
gaacaaaaaa aaaaaaaaaa accttatttc ccaatttccc aaaaaaaaaa aaaaaaaaaa 240
ttttataaaa aaccccccaa gacccccaaa aaaaatccta caaaaaaaaa aaaaaatgcc 300
caaaaaaaaa ttatagccca aaaaaaaaaat ctttttcaa aaaaacaacg atatataaac 360
tccaaggact caaaaaaaaa aaaaaaaaaat ttccccccc aacccccaaa ttanaaaaa 420
aagggtttta atacctaac caaaaaaac atttttaaaa aaaaaccccc ctcctcccc 480

ccatttgagg gaccaaaca aaaaaaaaaac gcccccgaaa aa

522

<210> 31449
<211> 484
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073g10d1

<400> 31449

agaatgcaac gttcgatata ctaataatag tgccatacaa aaggactgtc ctcgaatata 60
aaacctcccc tcaaattctcc caagaatgca agcaatgtac gtatataatt caaatacagt 120
aattaataaa ctcccatgat cacatccaca aaataataat atataaaggt aaggtaaata 180
gaaaaataac atgaattggc agaaaaatct gcaagtccga agacagagat cgatgatgtc 240
tagaacaaca aggacagcaa agcacatccg aataactaagc tcccaatcat cttctgaaag 300
gaccacaact tttcagcccc actatcatcg ccagaggagg agatggtgga gaggctgggg 360
ccgggagcca aggaaggaga gagtgcagga gcaaccacct tggcaggagc tggagctgga 420
gaagtggctt ggtggaaaag aaaggggtgt ataggggtcaa tgcgggtgga ggcgttcctg 480
gtgg 484

<210> 31450
<211> 353
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073h02d1

<400> 31450

ggacacaaac atgcacattt gtgttcatct ccaggggggg ggggttaaga tattcagtta 60
cagaagcctg ttgcataaac ccatacggga aatttttaaag atgagacatt atatacatta 120
aattgggatg tattcaatag gagtgcagg aggattaccc ttacgcgact tagccccctt 180
tgacagtaag tggccttaaa aaaggagcca gcatatgata taactatgag taaggactcc 240
atttcagctt ttggtgcatt ggccttaggc agaagacatg gatttctaata taaggatcca 300
agttttatcg acgctgttga ttgcacattt gacatgtggt ggcagactta aca 353

<210> 31451

<211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073h09d1

<400> 31451

acaacacaat ctgaaattgg ggtttggaat ttttcaactg acaggggcg gatcaaaatt 60
 aaacctagga tgaagtttta tttttatata ctgatacaca ttatttaaaa attcaatata 120
 aaaaggtcct gagacaagtc atctactaca gaacacttat tagagcctcc cgtaaaattc 180
 gcaaataatt ttgcagtaat attttaatcc agtgggcccgg gcttcataac aattattagc 240
 ttcagcaaac ggatcattac tcttggggcg tcttaaactct tgggtggggtg ttaatttcca 300
 tcattcaaca aaggccccgt atcaaaatta ttaacgaaac tttccccact aaaattccct 360
 ctaaaagaga tgatttaagc tggcggactt tattacaaat tgtggaattg ggtgattcat 420
 tcccggtgt actt 434

<210> 31452
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073h10d1

<400> 31452

acaacacaat ctgaaattgg ggggtgggtat ttttcaactg acaggggcg gatcaacatt 60
 aaacctagga tgaagtttta ttttttttta ctggtacaaa ttatttcaaa attcaatata 120
 aaaagcccct gcaacaagtc atcaactaca gaacacttat taaagcctcc cgtaaaattc 180
 gcaaataata tagcagtgat tttttaatcc aataggcca gcattataac aattattagc 240
 ttcacaaac ggatcattac tcttgtggcg tctcaaactct tgggtggggg tcaattcca 300
 tcatgccga aaggccccgt ttccaaatta ttagcaaac tatacccact aaaattccct 360
 ttaaaagaga tgatttaagg ctggcagact ttattacaa ttgtggaatt ggttgattta 420
 ttccc 425

<210> 31453
 <211> 381
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a02d1

<400> 31453

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gaagaaaaaa aactttgcat gcacttgcca ttaaacttcg tggtagacac aatacacatc 60
aaggcattta attttatcta tctatctttc acacaaaatc cgcacattac caaaaaaaat 120
agaaaaagtt ctcttcaaac tgatatgttt gccacaccat atattaccgt ccagcttttc 180
ttctagctat acacaaaaaa aaataggcta tcaagaataa tcaaggaaat ggaaacaaca 240
aagaaaaact gggaagagtt ggaatgcagg ctaaaatgca ctccagttat ctgaaccttt 300
cttcggagaa tgattttcaa aagaagacct taaaagggcc agaggagccg aatggatcaa 360
agtcatcaaa agaaaatgga c 381
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<210> 31454

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400074a03d1

<400> 31454

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ctgattatca tttcattaaa tcgactataa gcaaccagat atattgggtca aaaacaagaa 60
ccacggtgac acaaaaccat aaagatactc aaactcaaac acaactaaaa ttactgagca 120
taatcataaa ccctaataca cgacatcaag ccctagtttc tccagcctcc atcaccaccg 180
tcaccaccac gagagtaacc acggtcacca ccaccaccat aaccacggtc tctgccaccg 240
tcatagccac cgccaccgcc accgcpatat ccaccgccgc cgccatagcc tccaccgcc 300
ccgctacggt tgtatcccc tccaccaccg ngaccaccac caccatattc accaccgcca 360
ccaccaccat attcaccacc tccaccgnet tcggcgtcac cgtcaccacg ggactgagct 420
tcgttaacag tgatgttacg gccgtcaagg tttaggccgt tcatcccttg atggcgctctt 480
tcatggactg c 491
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<210> 31455

<211> 467

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a04d1

<400> 31455

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agaccatattg caacttatat cattgttaag ttgaaacggg gaaaagtaca ttaaaaaaac   60
gagaaaagtt aaatccaaat ccaaaacata atgacaagac aggttattat ctaaacttca   120
aaaggggtctt cgcaaaatca agaacaaccc atgacaattg gtctgcttaa tcgacttcct   180
caattttggg tccagcaccg cttccactgc cagcagcagg accatcctca tccatggctc   240
caccgcacac accaccagct ccttgggtaca tctttgctat gatgggggta caaatgctct   300
ccaactcctt catcttgctc tcgaattcgt cagcttcagc aagttgggtt ccatcgagcc   360
attggatagc ctgctcaatt gcacccctcaa ttttcttctt atcatcagca gacagcttgg   420
aagcaatctt atcatcttta attgtgttcc tcatgttata ggcgtaa                   467

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<210> 31456

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a07d1

<400> 31456

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aacaaaacaa cacaggacct tgttggcttt cattaaatat tcgcatgaac aaatttatat   60
tctgtgggga aaaaatataa catacacctc aacattacta ctgactattc ttgtaaggaa   120
catgtagata aataatagaa acagagaggg tacattccca tctatttcag gggttcaatc   180
ctccagacaa ctttgatagg ctgaaaattc ttgctatata cagcacagca accttgtgta   240
tctccaagca aaaggaata acaacacaaa atgaatcata caagagaact aacagttgat   300
gccacattga ccattgggta atttggttga gtcagaagtg aagggatcaa tcctcaccca   360
cagcaaggag aatattgaag caagaagaac ggaccaaaca ataacaatgg ttggggtagc   420
attttgcttg cccaagagac ccttcaagaa tgggtataga tgggcaatga                   470

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<210> 31457

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a08d1

<400> 31457

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aatacacaag atgggtcagg ttatgaatac aaataaagat ggggaaaata ttcaatctta 60
gtaatacaaa agctaataat tctcttacia ataatcaaaa ttgaagacaa tggcaaagat 120
tgacagatcg taaataaaaag aaaagaaaac aagaggaaaa aaaaatcaga cattttccca 180
acaaacagat ttgaacaaaa aggacttaca cagaagatac agccttacac ttgccaattc 240
ctgacttgaa gttatgaact ttacggacaa tgagcaattt acgatctgtt gccaaaacta 300
tcatgacgca agaggagata tgatcaggcc aaataaactc taattttact caagagtccc 360
tctcccatcc accagtttaa aaccattgat catggaagtt ggcacgatta tttggtggaa 420
ttccagcacc aaagaaagat acaaattctt aaataagccc caattcatac 470

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<210> 31458

<211> 520

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a09d1

<400> 31458

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aacattatat aacaactgag gtcttgaata tcatactaaa tatgtgaacc cattcaggtc 60
caacaaattc aaacgctgtg taaatatggg aggggagcaa atggaataaa ataataaaa 120
atagtagagt atctgtattc tgagacaaac ataaacaact gtaagtaaaa ctaaccgcaa 180
gaatacaatt tgcactaagc acctagagtg catttaagta tctaagcact tgctcattga 240
actcaaagct cactgaattc caagctgaaa ttgaaactaa gcacttgcat gacatgtcgt 300
ctgcaattct ctttacaaca tgctcctaaa acaagaacat tagttctaga tgttactcat 360
tttgaaagct tatgatcagc agcatgacac aaagactact gagaaagatt ttaaccaaga 420
catgtgaact cttacattca tggaagctta aaatttcagc ttcagggtt gtgaagtttg 480
aagccaaaaa ctctcgggac atagctctgt gatggtttct 520

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<210> 31459

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a11d1

<400> 31459

gtaccaagtg acccttatat gaatatgaat acatgactct acgtaaacta taaacaaaga 60
 tcgcattatc aatccaagcg aaagaccaca ataacacagc acattagtga caagtatttc 120
 tgtaagcaat acataatcgg ctaatagctg tacaatactg tcactgtttt taccctcttt 180
 atgaagtaaa ttggtcgctt ccctataagc acaagacatc caaaatcaga tagggattat 240
 cactaaaact ggaccaataa tatccaacat ctttctgcag cgtgatgatt gtggataact 300
 tcaaatatag ctgctaaata tgatccttat gactggg 337

<210> 31460

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074b01d1

<400> 31460

aattaaatat tacattttat gtagattgat gttttcaata ggtatacctt gaaacaagaa 60
 ggggtagctt ggcggaggat caaacttccg tcataaatgt cacaccccaa ttgagctaca 120
 agctcttctt aggctataaa taaattattt acaccacttg catgactgta catgttacat 180
 atgcatcata catgtacaaa ccagtgaagt gaaatatgtt agaattggga aagaatttga 240
 attattcagg aaaaatagga agccttggtg aactgatgc cattgccgct gtcaccagta 300
 gacattgagg taggacttgt tttcttacgg ccaatagtag atttagaggg tttttttgta 360
 tttagcctca agggaagaat ttgcaacctg ggattctgat cgctacctga cttttcagca 420
 gccaaactgat aactttgaac gagttcaagc tgccgggcaa ta 462

<210> 31461

<211> 465

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074b03d1

<400> 31461

caccaaacta tcgggacatt gttctacatg atttcaatag gaggaattta aaccaatata 60
 atcatatcat ttcttttttg acgcaccaa ctcgagaatc aaaatagcac ttgggcacag 120

cctagccccg ctgtctcttc aagagagcca aataacacaa aagcacgtac tacagccctt 180
 ggctacaagg atatgtcaaa ctattgggag attttttttaa gattaaagca aaatgattaa 240
 atttctgaca ctcaaattccg gcatccaaaa ctgtcaacat tacaccccc aaataacata 300
 ctgtagcata agcagtagca cgactcaaaa ggcataattt tactcaaaag attcatcatc 360
 atcgtcagga aggggctgac tagcagctgc aagaagctcg gcctcatgtt gttgctgtgc 420
 agctaaatca attaaaactt ctggtggagc caatgctgga gactc 465

<210> 31462
 <211> 422
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074b11d1

<400> 31462

aaataaatat cacaaattat tatttctcct ataatgttat aagtatagat agacgtagac 60
 ccctaaaagt ctgtctataa ataaaagggtg aatctaaatt aaacccaaga aaaaaaaaaac 120
 ttattaaaaa aaagtacaac aacggattac aagtccaacc tttttcactc taacaagaca 180
 caatcctaag ttaaaaaatga aaaagaagga aagaagaaa tacaaaatat ttgtgttgac 240
 tgttgtcttt ttatattagt cgtggcagct taaagaagaa agtcacaagc cacgcgccgc 300
 atcgaccaa acggacatga tcgaggctct ataacggttc ttttgactc accacaatgg 360
 ggctccgaac cacgtgcttc ccattcgtcc acgtcagcga cccgaacacc gtcccgact 420
 ga 422

<210> 31463
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074b12d1

<400> 31463

gcataattcc tatagtttta gatctccttt tcccttttga acaatatttg gtacacagta 60
 cccagaaga gaaaccaaga tgaaaaactt caaaggga ttaattaata catcaaagga 120
 gccaaaaaa aaagagagag aaagtaatcg gaaacatata tgtggagatt tgtggggact 180

acataagggg aacaaaggat tcaattgatg ggtatgtgaa tgcctattgc tacaaccaag 240
 atggtaagta tgcagaagaa aatgatggca tgaacaaaaa ttgcatccc actagtgtc 300
 atgtttccaa acttaaccac cctatacctt gcgggaaatt ggaacaacaa acccgagat 360
 aagaggatga acaaagccac aggaataata actgggcccc aatcaggacc catttcttt 419

<210> 31464
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074c02d1

<400> 31464

aatcttggat gttttggcaa gggagaaaag tataaatata ggaacaactt ggatgagatt 60
 gaacttacag tgatggtaa taaaaatgtt atatacttac tatacatgat aagcgcttaa 120
 tctgaagtat tcacaatgtc tatactgtat atttcctttc ctctgttggt ggtatcatcc 180
 acgacataaa ccttttcaat cattcgtttc atcaaatacc ataaccttac cacaaacagg 240
 acaggtgtca cttatttcca tccactcata aatgccacca agatgaaaat gatgagagca 300
 ttttggaact atcttgggat tctcttcaat gtattcttca agacaagttg gacagacatg 360
 ctctcttctt gaggatgaat agacaacccc agctccagat gtaaattctg ctgatgagag 420
 tattacagag gacttgaac 439

<210> 31465
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074c03d1

<400> 31465

gttcaattca attctattta tcaatctttt gactgtctgt acagttatta tcccctctcc 60
 tgagtcaatt tgaatctctc tccacacccc acaatgtcta catccataac acaagcaata 120
 aaataaaaaa agaactctaa tcacataccc tgtacaagct agtgtgacaa tccctctccc 180
 tcccaaacta aagtgaacaa aatgcatta gtgtcccaat tggcctctc cccactggg 240
 ttaccatta aagttttaat gggtagacc aaaaattaac ccatcaacac ccatgaggtt 300

ttccaatcta tatgtttgtt aaaaacacca ctgttggtta acatttccta gtgcatggaa 360

tgc 363

<210> 31466
<211> 564
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074c07d1

<400> 31466

atgcattaaa aacaatgtta cacattatta caattttatt caaatatacc aaaagaatca 60

atcaaccagc aaataaatag atggaacatg gtgatgccgg ttgtgatcct ctaactgcat 120

aaattaatta ccatccaaac tcatgtcatt tacactttga agcaacggat cccttcggca 180

atgagggatg ctacagcctc ctttcacttg ggtataacaa cttaaccaag ggaatcaaca 240

caaataaatg tgggtacaata ataagacacg aaaaagggtcc tctaaccaag taccttgcca 300

agttcatcgg tcaacttcac gcgacccgat ggctccaact tgcttaaaag ggcagcaaga 360

ccttgaggta gagcttgcaa atctagagct gagtcaccaa tatttggtcaa ttgaagcaac 420

actttctgcg cagcaattc ctttagttta ttctcgtaat ttgcaggatt atccttccat 480

ctgaagaagg ctttgtcatc caaccaagca tctgctctac ctttgggcat atcagaattt 540

aaataccatt ctttgagcaa gttc 564

<210> 31467
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400074c09a1

<400> 31467

aggaagagct tgatattgat gttcttggtc atggagaacc agagagaaat gatatgggtg 60

agtacttcgg tgagcaattg tcaggctttg ccttcactgt taatgggtgg gtgcaatcct 120

atggttcccg ttgtgtgaag ccaccaatca tctatggtga tgtgagccgc ccaaagccaa 180

tgactgtctt ctgggtcatc ctgggtcaga gctttaccaa gcgcccaatg aagggaatgc 240

ttaccggtcc tgttaccatt ctcaactggt cctttgttag aaatgaccaa cctagatctg 300
 agaccaccta ccagattgct ttggctatca aggacgaagt ggaggacctt gaaaaggctg 360
 gcatcactgt tatccaaatt gatgaagctg ctttgagaga gggctctgcca ctgaggaaat 420
 cagaacaagc tcactacttg gactgggctg tccatgcctt cagaatcacc aatgttggtg 480
 tgcangatac cactcagatc cacaccacaca tgtgcta 517

<210> 31468
 <211> 460
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074c12d1

<400> 31468
 gaggcacgag ataaccactt tttaccatat atatatagag agagagaata cgaagcacac 60
 tgatcacagg atgatgctct ctttaagtag ggaagcagat cttatcagta cacataggta 120
 ggttgaaatt ctagctctag caatctagct agagaaggta gtacttgac aacacacagc 180
 acatgataat ttattttata cacaatctca ttctcatggt gctcaagatg catggactaa 240
 ttaagcaaca atgttggtct gataggcagt gtccacagat aaattgggta ccataaaat 300
 ggccttgctt ccaaggaaat ggcaaacagg gttagttcca ggatcaactc ccataagttg 360
 atgaagcatt tgatgattca ttccagaagt atttgagtgg caaatagcaa gtgcctgagt 420
 ttcggttcca tcaccagcca ccaatggaac catgaaagct 460

<210> 31469
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d03d1

<400> 31469
 gcacgcaatt ctcttaagt ataatattaa caaagcatga gtttattaca gttatgcaac 60
 aaaacgtgta taagtagaca attcaatatt acatcaaatt caagagcagg aagtttgtcc 120
 catgctcatg ttaacagctt attcttaaac aatatagaaa atgcaaagac caaatggcag 180
 taaaagaatt atcatcctat ccagacaatg caaagctctc ctgagtccag tgtggtggat 240

ccatcacagc acagggatct gattttctcaa agtcagcaac cttttcttga catttaggac 300
 agtagtgata tttatgccaa aggcaatcca ttgaagggca aagaaagcaa actccaagca 360
 tcatcggcac aaagcatcca acaaatgctg ctagactggg ctttgatctg acggtagtga 420
 gagc 424

<210> 31470
 <211> 437
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d05d1

<400> 31470

gaaaactcat gaataatata tgtatttttaa aattttaatg ttaaattatc atgacatgat 60
 ttaataatca atctttgatt ataggtccat gtatgttttaa agttggcatt aaattttgag 120
 ataaacctct aataatgacc ggaaaacaac actaaaaacg gtgaaatttg ttgcatattg 180
 tctttaatcc ataccctttg tgagataaaa ggctagtgcg gcggggctcc aagttggatg 240
 gatagtcttt ataagtgcac caataccagt tatgtggggg catggcatat ggaagttcct 300
 gactcaatgt tgaagttaag gggatgtaaa tctgactcat cttcatttgc agcatcagat 360
 accaaacggg cagaaaaagc gggtgaccaa gccgccagaa tattaacccc aggagcagca 420
 atatcaggct tcaacac 437

<210> 31471
 <211> 512
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d07d1

<400> 31471

agggaggaaa tgctcagtaa tagcataaat tgggtacagc ttgccatgtt catagtatat 60
 aagttgcaca gtcgtgcaca gttcaaccgc gggaaagtcc tggggatcaa tatcaaacac 120
 aattgaagtg cattgaccaa ccagatcatg gaacaaattg ctgcaactta tagaaagact 180
 aaccaggaaa ttacgaactc tctaacagat gtttgtaaat ctaagagacc atggcattgg 240
 tttcatcttc atcagcttct cctgtttcat tgaacatgta ctgactttgg tactccatta 300

ggtactgtgt tgatcttttg acatccaaaa acagattgta aacccgattt atatcatcca 360
 actccactgt cttccccctt cgcttttggc atgccaatgc agctgctgtg attagatgaa 420
 tagcatatct catagatggt tctacaccta ttttggttaa caaacacttt gcaccttcac 480
 tcatgtctac gtctttctct tggcatctga ta 512

<210> 31472
 <211> 582
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d10d1

<400> 31472

acaatacaat atgtaactat gaactatcaa tatatgatcg ttatttatgt ctgtgataca 60
 cacaattcag gccatgatat tcttacgtga tttacagcaa cttctaactt atttaataca 120
 tcataccaac ccaactagga gcaattttca ttatacaatg acacttatct ttaaactctg 180
 aagcatgaca aggtggtagt caccaggac catattctta tgcaatttat gccacaactg 240
 gataagacgc acaagttgca acaccacaca tgttcttccc caattccatt ttgaagtagc 300
 cattctcacc ccaactttct ccccatgaat tttttatgag ccaatatggg acgccatttt 360
 caactccata cccacagca aggacggcat gggtcacatc ctgtgaagtg ctaccgcaa 420
 tgtcactagt gtaaactcca ttctcgtaga aatggaaccc attcaccacc tgaaaggcca 480
 cactaaccgg ccgaacaaat gcaactgcat gttttaattc attctcagca acccaggggtg 540
 atatttgacc gagtcaatga cttgaacggc aacattttca gc 582

<210> 31473
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d11d1

<400> 31473

ggttaaaata aaattctgat cacagcctta acacgtcttg tttgtttatc atagagattc 60
 gcagcctgat caacaagatt ttaaatatag caagccgatc aaatttctat tgctactaca 120
 aagttgacga tcagattgtg ttttttatat ataaaaaaaa atatcatg actctggcaa 180

gctgaagggtt atcacacgat taaagattgc caaaaaataa gaaaaagata ataaatgtca 240
 agcatccgct taggttctcc attggcttga aatatctcaa tggatctttg taaactgaaa 300
 aatagcttgt tccacaatcc agcctatgca taatagttca gacttgcttt cttctttgct 360
 tggacttgaa taataccttc attaaaatcc tcgtggttca cctcagttgc atcacggcgt 420
 agagccaaca tgccagcctc aacacagaca gccttcagtt gtgcgccatt gaaatcatct 480
 gtggaccggg caagttcttc aaagttgaca tctgggtgaa cattcatctt ccttgaatga 540
 atct 544

<210> 31474
 <211> 264
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d12d1

<400> 31474

aggccgcatt cacagcaaac tccacaagat aatttttagaa aaaaaatgca aaaagtcaaa 60
 caaagaaatc tagctaaaac aaaatctaag cccaatctg gatttttaaaa aatcaattat 120
 gccctataaa caatgttccc accaaaatgc tatttacacc atagactcaa cttagaaccc 180
 caaattaaca tttggcgtgt caagctttac attgcaaaac tcataggtct tgagcgaaag 240
 gcaggctgat agaaaaagaa agat 264

<210> 31475
 <211> 458
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e01d1

<400> 31475

acataaactg taattttttt ccggccagtg atcagatttt atttctatca taattctaag* 60
 ggtttttgaa acacattggg caccaataca gaataatcaa aagggagaac ttaatttctc 120
 tcccttttca agccttcttc ttagatggaa ctgtcccatc tgtgcctgca agcatggcat 180
 atttgctctt cctagacaaa tttgtgcact caaatcccaa agtccttgca agaacccttt 240
 gaatgtagtt tgcaacttca atagctgatt tccctccact gcatgtgagc tccttgggaa 300

gctggttcaa gaaagtgatc tcatatgttg gcattggatt catgaacaca aagttcgggt 360
 ccaacaactt gtgtccgcaa accgtgggtc cgtagaacac actttgcttt gtgttaatag 420
 caactgggac aatcctatca gtgagttcag caaatagt 458

<210> 31476
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400074e02d1
 <400> 31476

aataatataa ttaagcaggg tcggtccatg gacatatata agatgataat atgaaaatgt 60
 cgagataaga ctccacatca agattgaatt aaatagacat tggaaaaccc acatcgggacg 120
 ttgatgaata ataacagtgt tactgaaatt aattacgtaa ttaattctca ttggcgaact 180
 cctcgaatag cctgaggacc tgaacacagc cagaagcaac ctctgagac atgaagccca 240
 gggcattggc taacctatca taggatgcca cgccgttggt gcgggtgaga ataactgaca 300
 gntgctgggc ggaccggggc gactatcttg cattgagggc gagggctgct tacaagcttg 360
 gactgcata tttgatctgc gagaccctcg cacacgtgca tcgtgtttgc ttcagaagat 420
 gcaccgtacc ccttcttggt gtacacaaca ctcgttgata accctgctct tgct 474

<210> 31477
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074e04d1
 <400> 31477

aagagaataa aaaactttta tttatatcac agccggacat atgatataag taacataggg 60
 ctaacacata aagagacaca taaaaagggt tacattatgg gaacacccat gatttattaa 120
 ccataatat aatgccacca gaccagacca gacctcccaa agcataaaat atctaagacc 180
 taaactatta catgggaaga aaaatgcata aactgctttt tgagtcaagg gactttcaca 240
 tgaccctctt taatgacaca ataaaagtcc gtgatacacg agtttccctc ttcgcatttt 300
 cactggtacc aaattgaaac ctcttgctgt ttttgaagag aattcattca tactcactgt 360

atattctcct tgaaatcaaa ggatgacaaa tcac

394

<210> 31478
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400074e05d1

<400> 31478

aacacaagct tcaattttat tgattttcat cttgtacgta tgagtaggac cattcaggtt 60
 ctatagtgtgta aactaactca aatgttcacg aaaaccaatg aaaaaaagaa gtgaaaaagg 120
 ataattgatc aaaggcttaa gagtaaagaa agggcataaaa aaagaagagg tattagtccc 180
 ttcaataata ataataattt tcagtgtcca aactcctata aacatgaaat gatcatttaa 240
 tcttattctt tggctcttaa tccaacggca cagtatgatt catgtagtcg agtatgatcc 300
 atgtagtcga cctcaccaga gtcattagac cactctctcg aagaggagaa ttgaaggaca 360
 attcaagaag agtccgaaca attntcatct tcatcttcgg gcattcaaag caaccaagaa 420
 agaggggtctg atgagaattt ggagac 446

<210> 31479
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400074e07d1

<400> 31479

aaccattaac gtaaaaaact attaaaaaat tgtaattact acacagtaca cacctaacta 60
 acttgaatag ctgcaatgga caagtcagag tacttattct tacatgcatt gcagctacct 120
 ttagcaatga aaatatacaa aattgtgcaa tttcctaata aatacaaatt tccaacaaaa 180
 aacagagggt caaaaagact accctctaag ctgtaggctg gtcattcaat aattttctcc 240
 ctccctgttc tattggccat tcaatcaata cttgaatcag caagattttg gcaatcggtt 300
 agcagtaatt ggctgctaca tttcaataat ttactatagt cctgcagtga tactggattc 360
 tctttgcagg aatttagtgc cctcatataa gagagctctt gagagaatca ttttctgatc 420

attctgaaaa tggtttttta acctgaggag tgaatggtgg aacttctgag tactgaatgc 480
 atgttggtca atcttctgct ccattcttat accagaatgt atcccaaggc ccacttttac 540
 tgctcaacct taagaaaacc aaaatattaa ctcaatatan atcttatgaa gaaaattttg 600
 atcatgg 607

<210> 31480
 <211> 251
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e09d1

<400> 31480

ctatctgatt aagtatcttg gttagaactc aggttttgct ctattggtcg gaagtacaat 60
 gcccataacc atgcaccatt caaagattaa cacttatcaa attatctaca gcaagaaata 120
 gaattcatga gaatctgcag tcaacctatc tacacagggtt gggtttgac actccaccgt 180
 tagggttttg ctgttctcgc catatactta ctgttcctcg tagcttcacc tctttcctgt 240
 ctacacctga c 251

<210> 31481
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e11d1

<400> 31481

cacacaaaca taggacaccc cgttgagacg ctgcaaaatt aacacatcaa agatccttca 60
 accataacat taactcgggt acataaaata tagctactcc cacagtcaag tcttagagtt 120
 ttgttaagtt ttatcacaac aatcttgaaa agaagcttac taaatcataa acgcatgac 180
 aacataaaac ggacacataa taaacaatag aaggattatg gcagcttagt atgagattct 240
 atccagtccc atatgccttc agttctcgt tccaatacac catgttcgaa gaggaacact 300
 ggtactgcct aggttctgct cttacatttt tcaacagccc tgggagctag accaatggca 360
 tcagaactct tcatgatcct cagcctcttg catgtttcaa taaacatctc ccaggaaca 420
 tcaccacaa gcatccaatc gccctctctg tcctcatatg taagaacata ttctgatcca 480

t

481

<210> 31482
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f01d1

<400> 31482

gaactaacta ataaagttaa ctaactcaac cgattaccat tgggtgtttt tcttaagtgc 60
 aaaaagatga actttcaaca cttcaagatt agagcaaattg ccacagagct cgagaagatt 120
 tacaatgcta aatacatata acctaccaa gaaaacctcg agtgagtaac aacgtttttc 180
 ccacctacaa ttactcgtaa aaatgaaaac cctctcatta ttttacattt tgtcacacaa 240
 cttttaacct aggggagggc tgcgtgtttc aaacaatcta ttgaatgagt aaaattattc 300
 agtttttttc ggagttctca taccagacat ttcaatctgt actgcttaat ctgagctttg 360
 gaaagcaaaa gctatcacta gcagtattaa ggttttccat tggttcaata cggaccataa 420
 tggatgctgg gtattgagtc tgatgtgcta at 452

<210> 31483
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f02d1

<400> 31483

acacaatcat tcaaactccc atttttgaag tacaagaatg agaatatgta taacccaag 60
 aaagactgac attaaaatca ggaaattagt aaattaacaa tgatctcttg atctattctc 120
 tcatgtagta tataaaagcc ttccctaaag aacgttcttc atatcgcca atgcaaacct 180
 ctccaagtat aggggaatga aaactaagga aataaaacac agtcaccctc tcttctaata 240
 actggaagaa aggagaatta gaaagatcaa aagaatggaa gtggtagcat atcgtggcag 300
 tgatcaataa caagagcagc aattccttca cactaccttc tgagcttact ttgctttata 360
 ttataccac aaattctatt catcatctga ttccagagtt gggctcttag agcaggcttc 420
 cttttgatgg agttccaaca ttttcttttc tggattacat aggcctgaac actgtggaat 480

atccccacact gcaata

496

<210> 31484
 <211> 380
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f03d1

<400> 31484

aattatatca cttcttagta cttgtggtag tgaaagaaaa tgtgattata caaaatgaca 60
 taatggggaa gaactcatgt ctctgtctct cttggtctaa atcgcatcag aagacaaact 120
 aaaagggact tattttcttt gcccatcaaa cttgggagta gtaataattg gaaaaaacat 180
 gagaccatac agatagtata caggctgata cttctaaact cagcgggctt cctcacagga 240
 ggtcctctgg gccattaatt tccttatccg aaatgacagc accatctgga acttccagtt 300
 taacaccagg attggccacg atactgattt ttcccttgag gataacacca gctccacacc 360
 atacattggc agccactttt 380

<210> 31485
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f05d1

<400> 31485

caaaaattcg taatctcgag ctgttaatag ggaacataaa aagagaaaga atctctttaa 60
 cagggccact accctacaaa tagaatcctt ggccccccat ttgatgacca gaaatgggat 120
 aagtacttca aaaacaaatc ggaaacgata aaaaacaaaa aaacacatta acacagcaga 180
 ttggccgcac gctgtttttg caccacacct tgaaaatata tagtatgaaa tatgaaccag 240
 ttcacacatt aactacatat tggagcaaatt accacagtgc agtgctttaa ggaaaaatga 300
 aaatccaagc cccagaactc gttttcaagg gggcaacaga gcagtagagt tgatccattc 360
 gggtagctac tctctcaga agaaccaatt ttcataagca ccatgatgaa tatttgaact 420
 taatgaatca ggaccaaact catgaggtgt attcaaattg ttgaggaggc tgaggttcct 480
 tatccacagc ca 492

<210> 31486
 <211> 285
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f06d1

<400> 31486

agaaagaaca acctagcttt atgagtatga atatcataag cattgtcact gccatcataa 60
 cagcactcac acgcatacat aacataatta acaccatgaa catgcccttc tacccaactc 120
 taagctactt gcatagtact acatatataa tctccttatt gaaattaaaa aaaaaacagc 180
 agtaacatcg gaagattaaa aaacatagcc tcttaatcct gccatcccca tgaacctgca 240
 gtgggctcgg gtcattgaac cagcccattt aaaggacaag acctt 285

<210> 31487
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f09d1

<400> 31487

gcaaattaaa ttacacaatc acagtcgtac atcacacatg agttgggcct cttccaactt 60
 aaaagcagag gataacattg gcccattgac cgacacatgc accacctaata aatcataatt 120
 ttacatcttt acatacaaaa taaaagact ttaaattgta aaaagaagaa aagagataaa 180
 cagatcatct taatgaaatg aaacaaaaac ccacaaacat tggcttgatt tttgctggtg 240
 ttgttggtcc caacttgatt aagcatgaac cgtttgattg aatcacttgg acttgaaggg 300
 aatggcctg attacgacct ggtggtagag tgctgcaaga gctgcaccga tgaatggtcc 360
 caccagaaa atccagtgtt cattcccaac caaggtcctt gttgaagatg ata 413

<210> 31488
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f10d1

<400> 31488

attcataact ccttcaacta gatgatccac acaaaggacc gtctaaaaag ctagcaaggg 60
 atacacctgc gtactatatt atagtatagc aatctaggat ttcttagaat gcatattaat 120
 taatattaat aattgtaagg ttttaataag tgacagcacg agtttatgaa tctattatca 180
 gcagcccaca tacgagggat aatcttctag agcatgggat gggaaagatc catgggaaat 240
 ggattgccta gaacattatg catgtaatag tgtggatggc tcggatccat cagcaciaaac 300
 tgaatgtccc ttgaaggctt cagtgcggtt tcctttgatt aataaccagt tgttgattt 359

<210> 31489
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f11d1

<400> 31489

ataaggtact ctattaggaa tagaaciaaac aaaatataaa gcttcaccaa agtggtttatt 60
 ttattgtttt tatgttttat caatgagtta taaataaaga gacaatcagt caatatgtaa 120
 caacaaaata cttgcagcag taataataac gttaaacaat aaaaattaaa aaccaaacia 180
 caaatgtcct gatttttaaag acttgtgttc acaggatcat ttgaccaagt aaaggatagt 240
 tttctaataca tatatgaatg aaattagaag tatgctttta gtttttcaca taaactaatt 300
 ctaaaagcat tttctcttca aaaccatcat taatgaagaa aatatatttt aaattttaaa 360
 ttataagaaa atatttttca acaatctctc acttatgtaa aatttaagga aatgaaatac 420
 tatagtaaaa cattgttaat aaagcataat acattgtgtc ttcattccatt aatttgtcag 480
 acttacttaa cagggaactc aatcata 507

<210> 31490
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g02d1

<400> 31490

ctctgaaatg ccaactacag tttgattcga ttagatgtaa ggggaggact attttttgggt 60
 gcagggctac gtttttagcc agccaagtaa acagaaaata caaaaatcca cacttcagaa 120

cttatttcaa aactcaataa caacgttgga tccatccaaa atacatcctt ccaaattctcg 180
gaagtaaaaa tctggcataa tgttcttatt aatcatactc taagggtcc acaggctcaa 240
aacttcacgg tgaacacaag aataaccata tagggcatat agtttgata ttataacatc 300
taatgttttag acgaagttat ttgggaatga aaacagaaca gaatgcaatg atagccatca 360
aatccttgcc gatttacttc agtttgaga atagctcgg tgcaacacat ttgtcaatac 420
aagaccaata atcaaaatat tgtccagtgc agtggttctg cccagatata tcaccatgta 480
tccttttaat gcacgcctg 499

<210> 31491
<211> 474
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400074g04d1
<400> 31491

acagtggtaa caagaacttt attattttta tttgggcaaa aacaacaatt tcgaagcttt 60
accaaccaa cgaaagtcta tgattacaaa tcaaagaatg actacagctg ctttcaacta 120
aactcttccc ctttttttcc cctctgttta tttctttcca agtctccctc tatctacaag 180
gttatgacat cctcccttg tcagattttt gacaaaaca agaactatat ataaacttgt 240
tcaacaatca aaacaaaaag agcggctatc tttattcacc tactactact actatatctt 300
cacggaaatc cgtgtcttta ttggtttcaa tttcaaacc atactctctg gagagtaaag 360
ctcaggagaa atgcaagagg gactcagggg acttcttggg ctgacactca gcttagatgg 420
tctgtacaag ccatatccca tgagaaaata ctccattggt attaacatgg catg 474

<210> 31492
<211> 469
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400074g05d1
<400> 31492

acttagataa gtccggtaga atagataata tgacgtgaaa aaaaaaatca aaataaatga 60
cgtatccata tataactact cagcgtatat acagtcacca aaaggaaaca attgaacgga 120

gacaaacacc atcacatata gaaaataaat tatctcccaa atcaggtctc aggcactggg 180
 ttactttcca ctcttatata tgttgtcaat ggcattctga tagtatttaa gcaactgtgg 240
 cctcttcttc ttgtatgttg gagtgataag ggcacgttcc atgtcaaag gaattgagtc 300
 aaggtgaact gcttttataa actcaaaacc tttcaacttc ttttccttcg caatctttga 360
 gagctcttca attatgtaac tttttgctcg agcattttca cagagagaat tgaagtccat 420
 ggatatacca ttttcttggg cccaatgttc aagtgccttc ttactgggg 469

<210> 31493
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g06d1

<400> 31493

caacataaaa taaaatttaa taaaaaaatg gtatgtaatt acagtatgaa gcaaaatgac 60
 agaaaatttg tttttgttat ctccgtgta atcgctcgct ctccgtttat agattcacca 120
 tgcattccatc ctttgtattg aaatgactac tctacaacat tcttcgagtt tacatacatt 180
 cactctttat tatttttgtg attagttgag aatgcgattt cattggcaga cttgtccaaa 240
 agatccaaac atgctacaag cgatttccat caacttcctt cttcttggtt taggagcagc 300
 aacctaaca agtggagtg tgccggcagtg gcgttcttct tcttcttcag gagggataag 360
 aacgccgtca attccctgaa cggagatcct accatcagtg taaatatcag gatcaaacag 420
 gtaggcggag gaatcgccgt gaccgaattt aacggagccg tcag 464

<210> 31494
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g08d1

<400> 31494

gagcagaaat ctccaagtat aacaattatg aaacaggata caacaggggt gacaatatta 60
 caaaaagtta gtatctatgg ttacatagaa aatcagatta taccctaatg gcaaaagagg 120
 gaggggtggtt gatcaagcta cataaaaggg tacataaact acaaacatgc gagggaggggt 180

002220" 5' TTTT 560

ggttgaccaa actacaaaaa aggggacatt ataaactaca acaatatcaa cagactaaaa 240
aacaacctgt attaatgaca caacaaattc acttccagag cttgacaaac ttgtcatgac 300
tggtgaagc aaccaaacca ttacagtag aaaccgcca tgccgcaata agaccttcat 360
gagcagatag tgtcatcgtc ttgttctcag tcatgttcca gagctccaat gactggtaac 420
aaccaacga 429

<210> 31495
<211> 288
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074g10d1

<400> 31495

ctaccaattg gttttttttt tttttttttt tctttttggg aaaaaaaagg ggtgttaatc 60
cttttgcacc aaaccggccc aaccaagctt tgtcccaaaa atggccttaa aacctaaaac 120
acttataagc cgtgcctaaa aaacacgggg cacccaaaaa gttcaaaata cccggggcct 180
tacccccggg aattcaacca aactggggca taacacaccg acttaaaacc ccccccaaag 240
ggggggggaca aaaagcaggg gggagtcctt cggaaatttg gaaacccc 288

<210> 31496
<211> 538
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074g11d1

<400> 31496

cacgaggtac gtacagttag aaatttatat ttataatttc atattgtttg ttactgaatt 60
gaccatagac caattccctt ttatttaggg agtattcaat acatccataa ttctgagttt 120
catgttactc attccaagag acatgtcaga ttacgggcat cccaattaaa ttaaatggaa 180
tgacagtttc tcattcggaa tctgtacaat aaaaattttt atcaaatcac acatcgcagt 240
atactagact ttctaattcc tttagagatt tatctaaaag atttgcgata taactaggaa 300
gacgtttcaa ataccacaca tgagttacta ggcattgcag ttttatatag cccatttgat 360
atctacgtat ccgagaatca ataaattcta ctccgcattg ttcacaaaat tttgggtcgt 420

cctttttatc tctgattact cgataatttc cacaagcaca aatcccactt tgtataggcc 480
caaaaattct ttcacaaaat aatccatctt tttcggatat attggttttg taatgaaa 538

<210> 31497
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074g12d1

<400> 31497

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aataagtttc ttcttgattg tcttttagact actatgttgc tgaagcattt ctgcgcatac 120
attaagtggc aatgtgtcag aatcaacaag acccagcaaa aagtttaggt acttaggcaa 180
cagttcatta aattcatctg aaatgaacac acgtctaaca tacaacttca ggttggattt 240
gtttgcgtta taatagctct cgtataaatc ttgaggtgcc ttaggtggta caaacaggac 300
tgccttgaac tcgacatcgc cctcagcagt gaaatgactc catgctaaag gtttctcatc 360
actgaaatcc ttggcaagag agtggttagaa tttggtgtat tcttcttctg taacctcctt 420
tggattcctc agccatatag ctctcacatc atttaaaagt tgccattcat aagttggttc 480
cttcaccgtc tttgtcttgg gctttttattc ttcgtcttca cttttatcag catcttcatc 540
t 541

<210> 31498
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h01d1

<400> 31498

aatatccaac ttcttttttc tttctttttaa gggcggaaca atacaacatt ttttttacac 60
agcaaagcta tgggtcaaaca ggaagtttgg tatcttgtgc tttccacgag aatctgatat 120
caaatatattt aatgaacggc gtgtgaccaa aacagagaaa acagagcact ctttttaata 180
aacaaacaca gcttttagttc aatgaaaaac ttttccagac tcttgatgat gatggatgga 240
tgtcgcgggt gtcgagctgg aatactttct ttactaaac aacaagtttg ctgcctttga 300

cattcactac aaacctgtat ataacatcga tcttctccaa ccttatacag gctttgtaa 360
tgtaatccat gtttaccact gtaatcatcg aactgagacc ct 402

<210> 31499
<211> 118
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h02d1

<400> 31499

cttgggggtgt ggtgttttat ttttttctat ttgcactaac ttttttaata gtttaacatt 60
taaataataac acaaaaacct aaatatgaaa tttgccccga tgacccaaaa acctaggg 118

<210> 31500
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h03d1

<400> 31500

gtgaagaaca gatattgtaa cttttgcaac atttacaact gagccttgat cgaagcaaag 60
tctctaactg tgaaaccac cttatcaaat ctacctctt cattgctctc tctaaatttc 120
aaatagtcca agcacacaaa tggtttgtag ttccttttat tcccttctcc aacaacttca 180
tctggtgcca aaatcacctt gtcacctca aagcaccaaa agaattgat agaaaaccgg 240
ttctcatgat gtttcaaaac aactctatgt tctgaggatc ttagtttgtc attgctccaa 300
gcttgcaaca tatcacctat gttcaccact agggttccct cagatgggtt tatactctac 360
cactctccct catttgatct cacttgaagc cctcctatct catcttgata taagatagta 420
atacaactca tatcagtgtg catccaagc cctcaactt gatcttctat aacttctgga 480
gctgagtaat tgtttaccct caag 504

<210> 31501
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h05d1

<400> 31501

agacaagaaa gttaatgcat gtttgagcag catcctgcta attaagggat tagacaaaat 60
 ttatagaatc caatacaaat agcatcagat cacatgtctt tgatctctaa tgggcaaaat 120
 atatagagag aaaatgagca caaataatac ttgccaaata gaataagaac ctgatgactt 180
 aacagagAAC aaacattaac tcatcagagt aaatgagcaa catttgatgg cagctcctct 240
 acagtcacat tggagaactt ctgaatatca gacagcatcc tggaatcatc tgtcgtgaca 300
 aagtttatag caactccttt tctttcaaat cgaccactac gtactatgcg gtggagatag 360
 ttttcaggtt gggttggcag atcatagttt atgaccagag acatttgctg gacattgata 420
 ccacgggccA taaggTccgt ggtaatgaga actcgagaag agccggaccg gaatttacgc 480
 atgagaatat cacgtgtggt ttg 503

<210> 31502

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074h06d1

<400> 31502

gatgaaataa tatacaactc atttatgcat tatgtagtac taatatacca gcagcattta 60
 cggacttgat acaactcacg taaaacacat tttcatctac actaagggtt ttattatatt 120
 aaaatactgg acatcaaagt ttccactaaa aaggaaacat tctataccca aatacacaaa 180
 ggatctggaa aactcttaca agggaccatt catgatcagt aaaacacagg agcactttac 240
 gtagactttg gagcttcaact cgtatatatc aagcatttat tctagagatt gactattgaa 300
 actgcaatga cttcagcact ggacttcatt ttaccacctg aaggagcat aacgatagga 360
 atgttttttt cacgagcaaa ccggaaaact ttataatctc taagggaat tccttcagga 420
 ctgatctgga accttgctaa tggatcacct tctaggatgg gaggccagc a 471

<210> 31503

<211> 451

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074h08d1

<400> 31503
 cacacataaa caaagcatca atttgcttct gataaagact aaaaaagggg agactccaaa 60
 tagaggaaga agatcctcct ccatacatga aactccaag aaccagaaca ttttttagca 120
 attaagagag aataattaaa acaacaaaaa gggccctcct ttatctactt gttttctggg 180
 ttaggcattt cctccagcat aaagacaact cttgtaactt ggattattcg ttgacaacat 240
 ggctgtttgc gagaaatcac aagtcaatgg attccgtcca gctgtttgat acaatagatt 300
 catggcatat gcagcatggt ttaccaaagg gttaggttca aaacaagccc ctcttgttg 360
 aattgcggtta caatcaatcc cttgccaca agcataatcc aaatttgctt ggaactgtgc 420
 atctgccact cctcctttgg gcacacacca t 451

<210> 31504
 <211> 365
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074h09d1

<400> 31504
 ggatcaaact aatatacaag ttccttcaat attctacaag agacattcaa taatgttcaa 60
 agttctcttc aaaactaatc atttatgaca cagctgaaac ttggcaaate aatgtttatt 120
 attctcagcc gcattctctt ctttcccaag tgcaaccact actttcttca agatggattc 180
 ggttggttga tgagaattct caacagcctt tgagattgct tgccatttct ctccatgttt 240
 tggttcagca gcaatacatc tcttcagtac atccttctgg ttctcctcag ttccatgctg 300
 cagttcaaat ttgtatagca atgccccaaa atccccata tcaggagcta gtgtcacagc 360
 cctac 365

<210> 31505
 <211> 437
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074h11d1

<400> 31505
 gtatccaaga ccatatataa cataattgat aatccttaag gacatcaaac agaaaatccc 60

ctgaaaacga ggtctttgag ttcacaaaag gataccctat aataaaaacc tatatatagt 120
 cctatactac tgcattagct acaagataaa ataaactcca cataagcttt aagcagggttt 180
 cttgctgtgg actccatcac caacatcacg atcacaattc ttggagcttt atttacataa 240
 aaggggagat aaaggggtgtt cagaagactc ctgccatgga aggcagggtcg tcgaagctcc 300
 aaaggttcat aggggtttccg gcggcgatcat gagttgcgtc tccgccgagc aaagacgcca 360
 atggagcatt agcccaggct ttatcaagaa aagaaagggg ctcaaagaac ttgagctggg 420
 attcaatgtc tgcaagc 437

<210> 31506
 <211> 619
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075a09d1

<400> 31506

gagataagga aattgatttg tacaataaaa aaatcgttgc agtgtagga gtttcatttt 60
 ttacatccc ctaaaaatct agtgtagagt aaaataaaag aatgccacga tacaacaaaa 120
 gcaacaagca ttattgctcc attaccctg tgattacaaa atacaaacca acaaaaaaaaa 180
 ttataacaat ctctctctct ctctctcgcg tcgatctaaa aattgaaaaa attaaaaaaaa 240
 aaatcaaata taaacaatca ctctctttac cttttcagta aacacgttta ttttctattc 300
 ccagttctac gtttcacgtc aactggagcc ggatgccttc ctgatcgatg tgggacacca 360
 tttagatttt tcaatgaagg tgaaggacct agaggagaag aatgaacagc attcttgctc 420
 aactcagggc tgttttttgc tgcctttgag atagatctca tagtctttga tccaattcca 480
 ttggtcacgc tgctaagttt ggaatgatta aattgccaaa gtaagtcagg ttctgaggaa 540
 tcaactggtg cagcatcaag ctcatctatg atgtcatctg aaccccgaat gttaaactgg 600
 ttggctccca tgaacatag 619

<210> 31507
 <211> 587
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075a10d1

<400> 31507

agaacatcat tatttctcaa tttatatagc tctttaacca taattccctg gatacaacat 60
 gtatactagt gtatacacca tattcaaaga tagctaataa atacttgact gtataattaa 120
 tatcacacaa acgtaaagtg gcaatatata gtgtaaatat atataagctt aatttatata 180
 cagaaacat gagtataaag catctttata caaaatatc aacaagaatt tactttatta 240
 ccacatcatt atagtaaaat gtcattgataa agtgggtgaaa ttctattgaa tgcttggtgc 300
 aagatgtttt tataggatca aagtgtgtat ataaattaaa ctatattttt taatcaatat 360
 atatatattg ttcacacatt ttatatatat atataagagg tgcttaacaa gttggatagg 420
 caataccaca agaactaacg gtttttttgg cattaggaga gttaacatac tgcttcaagc 480
 taggggtttt gaggtagcca cagaagcatg gcttttgctc cttcagcttc tggcaacaag 540
 cactccaagg tgcagaacct gaattaattg ccggaagaca cggagtc 587

<210> 31508

<211> 535

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400075a12d1

<400> 31508

gcaaccaagg aatgtatata taaaaataac aaaatcgccc atagcgtaca tatataccag 60
 atacaaattt ttcacgacat atgatattac aaatgactaa aacttctaga taacaacgaa 120
 caaaagctat ataatgaatt cccacactac cagcgagttc aaaattattg cataccaata 180
 atttcaagaa cccttattaa ctttcacttt caaagggatt ggtacaacaa tatcatatgc 240
 taataaatat aatcttaaga tgaagaagca ggtttggaag atggggtgaa aggaacctgc 300
 tcagcgcatg taaggatttc atggggccca gcctgttctc gaccaacacc tagaaggcca 360
 agataatact ggtaatggga aacgatattg ttcacgagt ccacatcacc ttgtccacaa 420
 acaccatccc catagagaat gtccattgta gtgccaaatc caggaagacg attctccata 480
 gtatcattct tgctaggctt ccagttgccg acaaaggcat catgcgcaga gggct 535

<210> 31509

<211> 533

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075b09d1

<400> 31509

aaacaaaaaa taaccttttag tgcttttttat taatttttga atcatcagaa atatgaaata 60
 atcatgttta ttaagtacca ccatttgaca ccaaagatat atatagacac ggtggtgaat 120
 tacatgatgt ctaataccac cgtttgaccc tatagggtgtg gagtaaaaga aatacattat 180
 tggacctctc aataaaagaca ttactagggtg ggcgacgagc ccgtatgtga tctgaagttc 240
 tgaactaata gttgagcttt agtattatat gtacagactc agctacatta gatagagatc 300
 tgcataagat aagatgtaag tctagtaagg atgagagcta acatttgtgt tatgaatctt 360
 cccatgcaca ttggaatctg tctatagata ggatgggtttt gagaacagca tggatgcaga 420
 ctggtaacgg cagaatgtaa tatatgagcc acatcatctg gagggatttg ccgttcagta 480
 catgtttgaa tcatgattaa tgtagcatca cacgaaggga taagatctga tgg 533

<210> 31510
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075b12d1

<400> 31510

aatatcatca atttatatat tcattactaa ttaattggtg tcatctgtta attagtaaaa 60
 aagacaatga aaacttgtag aacatacatt ttggatatta aaagaaaagg ggctaataat 120
 aacaatgaca accctcattt gcacaacatc tggcaaacaa ccaagcaata atttaaattt 180
 tttagtagaa aaataaacia aaggattagt caaactaaca ggaacaaaga aatgaacta 240
 agccccttat catagtagat gacgaaggag aaataggag aggatggtgg atacatcact 300
 cgtgggagat tcttctcaca tcatctttgt actttcttca atcctgcttt acctgttgtt 360
 atacctgaca atgtaacagg tagcatatat gatacggttg tttgaaccac aaaatcaatt 420
 ctatttccaa atctttacag atttgtcatg actggccgaa gcaaccattc ctgtaagt 478

<210> 31511
 <211> 562

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075c08d1

<400> 31511

gaaaaaattc agagcggaga ttataagaa ttaacataaa aaaaattctt acattttcac 60
 tcacatttta aagggatagt aaactcgacc ttagtgaaaa atattgggaa tgcagaaatt 120
 catccaccat agtcctttat acatgaagta caattctagc tcgtagaggt ttctactcaa 180
 tcccaaacca cgaccaaaga tcagtaaaag tataatctaaa atttatgata cttccggttg 240
 agcatcagaa ccttggtctt catcttcttc acttcagca tccttaattt gggcttcac 300
 atgtagactt ccagcttctt tattcttttc actgaatttt aagcgaagcg gtcgtcccat 360
 taactccttc ccatccacag tataaatggc agcctctgca tactccctgg taagaaaaga 420
 aacagatccg taccagcag atcgccaga aaggctgtca aagacaacc tggctgacga 480
 tggcgttttg aaattctcag cgaagacttg tctgagatgg gtagatcttg ctttccatgc 540
 aagggtggat gcataaatta ca 562

<210> 31512
 <211> 497
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075c10d1

<400> 31512

atgaaactgg gatatgcaat cgttattgcy cgccttgtag caaacattt aattttcata 60
 tattacaaca aaaaaacaga ctttagaaat ctgccaagac taaataacgt taccagccaa 120
 aacctaagg gtaaatattat cacgcagtta taactgcatt atgcaaaca aagataaaaa 180
 ccatgcagaa attatagaac ctctactacc ataaattgca ctactgttga gcacattgca 240
 ctggttgacc agatgggtca tcatcatctt catcatatgc ctgcgatat tgctgttgct 300
 gctttcgtct catctcctcc ttaaagtga catcatgcaa agtgggtctcc tcacaatcat 360
 gcagctccat gtctgacaca tgcttgctgc tcttttgagg taacaccttt tccagtaact 420
 ggcatgggtc aggggaaaga aaccctgagt ctgggaaatc aacattaac tggatgtaaa 480
 ggcgaccctt catgaat 497

<210> 31513
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075c11d1

<400> 31513

aaagcaatca tgtcctttta tacaaaacta gatacaacga aagaagacac catttttaaac 60
 agaggcatca ttaaagagga atcaagcgaa gacaaataac acagcttgac attaacatag 120
 gctactaatc aaattagaca agacaaataa catagctaga gtctaataca gtggccaaat 180
 agtcccacaa ctcatagcat tgttcatgac tccattgttg atgttggtga aagtcataac 240
 caagtttcca agtgctgatg aattctgttc accaactgtt acaccattgt atgaggcatc 300
 attaccatgg acggtgatgg ttggcgaaac atgcgccatg cggcgaagat tagtcgtgtt 360
 cagttgcggg ggtgtgctca tttgatgttg ctgtgtctga agaagctgat agtttaacgt 420
 agtaaaagag ctccatgtga ccatatcttc cgctaacttc accttggttc tcaaagcttc 480
 tacatctgat tntagcactc gattattcg 509

<210> 31514
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075d07d1

<400> 31514

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 aaaggacaat agcaaattct accaccaatg taaatcctct tggaacaaat catgggacac 120
 gtgatctaatt cttggatgtc atcctcccat atgcttcaaa taccaaattg acatcacaga 180
 tgagtcaaaa ctggtctgac tgaaaatttt ctattacaag gctaagtgtg ccacagattg 240
 aaactttatg cgtgagcata aaataccaag gctaccaaag atgctatcac taaagaaaac 300
 aaggaaacct tttgcctagc accagcatta ggtaaccacg gataagaatc aggtggtggc 360
 attacacagt tgtcaccggt gaagtagacc cttcgaggaa aagcccaacc cttatcaaaa 420

gtaaaagttg ctttaccctt tcggaagagt agctctgatt gaacattgcc attagggcca 480
gcttggttga gaatatcatt atagaactta a 511

<210> 31515
<211> 428
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075d08d1

<400> 31515

aatattataa gcagagattc ataattcaga ttaggcgaac tttatacaga agcgaccaat 60
taccaaacat taaaaaaaaa aaaaagaagc aaccatgagc ttaacacacc catcacaagt 120
ccaaaacact tgaacttgct gaaaggcaag acatgaccac tttattctaa ggatgtttgt 180
ttaacacaaa acaccagagt gcacgaaaac catcacagac ataatacata agtttttagc 240
tacacattaa tagtttatca ttattcctaa ttaagggcta tctctgcttg aagcttgctc 300
tcccaacacc tcacttgcaa gtgcaggggt tgcaggagca gtttggtcca catttgagc 360
catcggcttc agcgggcaca cccatttgag caccctcaaa ttgagcctta acaggtgcca 420
ctcccatg 428

<210> 31516
<211> 604
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075d09d1

<400> 31516

cttgataaaa cttttcattt ttttttctca atcaatcatt aggtgtaatc gttgaagggt 60
cgactcatac taaaaatagg attaagatca cgtcactgct gctactgctc tattattttt 120
gtccgatata ttgcaacatt aaccaacag gcaccccggt tatatagtct ctctgaagag 180
gacgtggaat accagattct caaatatatg cttcacgaac ttctcactc aaaacaaaag 240
gcaccccgaga ttctcacttg aacgtgacac cacgtaaaac acacagtttt ataggaactt 300
gactcctgca aaaaatacag aaaaacttat tgctatgttc ctttctgagt gacgaaaaaa 360
aaacttcaaa cttatttatt tatccctcca tttttcattg tttaagacaa atttttaaca 420

aatttcgtga atatgacgta aatgtaaact tatccgaaaa caaaatgcat tgaattacaa 480
 atcacgcaaa ttgtcaatta tggcgtctat atccgggggtt atagaaacac gcttgctgat 540
 ctcccccaatt gcgcaacaat gatcttgagc ggtattgata gcacccaaat cttgggcaca 600
 ggca 604

<210> 31517
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075d10d1
 <400> 31517

aataattaag aaccgaagtg tatatcatcc aattttctca aagatggata atgtctttta 60
 tattattttc tcccttgta acagccaggt gggataatta tgaatattcg ttcataatca 120
 ctatgaatga tgaacagggt gagtagtgcg tcgtccatgt tgcgttcctt gctcacgtac 180
 ctttacgcga agaccgccgc taaaagttgc agtgaggcct ggcgagaaac gtggggtaac 240
 tgcatgatg atgatgcggt ggtggagccg ccaattcgat gtggaacctc cggagcaacg 300
 aatgcgccac actcttgagc tccaacagtg ccatctcggt cccctaacac acccttatcc 360
 ccgcttgaaa aaccggatac ttgaacggat tctgagggca aaaaagtcct tccttaacca 420
 cctgtctggc c 431

<210> 31518
 <211> 615
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075d12d1
 <400> 31518

aattaaataa taatttgta tttcacacat acaaggata tatacatata tgtagttatg 60
 atctaatagc tacattcaat gattttatta cctttgtcgg catttatata tacttaattc 120
 cctactccaa tattacaaat caagttatac aacacatatt cctacatata ccgtaccata 180
 agggataaat ttcataattg accacccatg tctttggaag aatgtgatgc aaggcctttt 240
 ttcacctgct tcattttcca tgataccatc ccaaaggcc ttgtccattg tctgctttat 300

tttccctca gtgtccttgg agtcaaaatc catgggggtt gccacatgga aaacaccagt 360
 gcaaccttta atggcttcat caaagcttcc ctcttgagca agatcagcct tccacagaga 420
 caatttggtc ttggaatctg gcggtccac caaatgcttc accttcttca tgtagctga 480
 agcatgcata taataataat aataataata ataataataa taataataat aataataata 540
 ataataataa taataataat aataataata atgtaataaa taaaagtggg aagtattatt 600
 tatatatatt ctaat 615

<210> 31519
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075e08d1

<400> 31519
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 ctagacgctt gcattgatcg gcgatttctt agacatggcg gagcatcacg aacacgagga 120
 agtgaagggt gagtccttgt tggagaagat ttctgggaag atccacgacc acgattcgtc 180
 atcttcgtcg gattccgaca acgagaaaac cagcgcttct gactccttga agtcaaaggt 240
 tttcaggctt ttcggcagag aaaagcccat tcaccatggt cttggtggcg gaaaaccggc 300
 cgacgttttt ctctggagaa acaagaagat atctgcatcg aactcggag ttgcgaccgc 360
 tatatgggtt ctgtttgaat tgcttgagta ccacctctc accttggttt gccacttcct 420
 gatccttggg ctagcgggtg tgttcttgtg gtccaatgca tccactttca tcaacaagag 480
 tccaccaag aaccacang tgcacattcc agagaaacc tgtttagaat 530

<210> 31520
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075e09d1

<400> 31520
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 tacacagtac cggaaattag tgcacatgga ctttctactg cataacaggt cagttctcca 120

gaggagaaga aacagccagg atttggaaac aagagacaaa tagcttatga taaacaaggg 180
 ggctagaaaa aggtctttcc tatctttagt ggtctaggca aagagaaatt tgctatacgt 240
 aactggtgc acatatgcag aggtctaact tagtggatta tcatggttcc aggttcaagg 300
 aaacaactgt tgattgtctg atggatactg caacctttaa gaacactgta gataggcaag 360
 ccggtgcca ccatggccgt cgcaccttct gctccctat cagacgagcc actttaatcc 420
 gtcttaatgc cttgcataat gtgatgaagt ctccccactt catgtggcaa cgtcttataa 480
 aacgtaggat ctgctcagtc gtaaacaatgg acatgccttc caggtatacg ccattaacac 540
 cattttc 547

<210> 31521
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075f07d1
 <400> 31521

aaaatcaaag caattcaggt tatggacatt tcaaattcct tgaaattttg agatttatga 60
 tccaaacaca aaagggtaca gaattgctga gcaattgggt attcctttta cccttttagct 120
 attatcatta tggctgatca gtatttgaat actggacagc cattaacctg aattcctggt 180
 gcaattgggc aagtggccaa tgggcaatgg tccaattaac tttccacca tttgagatta 240
 tggccagcat tttgcagggc caagaatatg agaacccca taaaagctgt gcctgaatcc 300
 agtgctgcag attgtccata attgaacttc tgccaccagc gtttgttgtg acggaacacg 360
 aagttattga agatctttcc agtcactagc cagcttgcaa ttttggcaag agttgctg 418

<210> 31522
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075f09d1
 <400> 31522

agaattaaac atcataagtt cattcaggat tacagttaat ttccatagac caatcacgta 60

gtgttgagtt ccagatttaa taatagatta aatttaaata attgaattgg tacaatgtac 120
aattatatta tctttcaaga catcaggatt ttggaattgt tctagtttag aggagaaaag 180
tcatctagtt tataactaca ctgtttttga attttagcat ctatcaattt aagtaattat 240
aatatttgat agatgaatta tatagtcagt tatattaata gaaagcagag cttaaaaggg 300
acagtaaaac agaaagttgc aatatattca ccaaagacaa cagccttgtc ctctcaacca 360
acaaccatga attcaggtcc tagcgaagac ggacacacaa aatatgtata acattgatcc 420
agaaaatgtc ttaatatcc catttcttca actccatgcc atcaggagca cttccctcta 480
ccttctttga tcccacttct ttccagtttg tagacagcac tgtcccatta gactcaacan 540
aagacttttt ca 552

<210> 31523
<211> 555
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400075f10d1
<400> 31523

aatccataaa gatgtgttta tcgtattcca tgcatacttc acaaagcaat atacacttta 60
ctacttgatc aatcaaaatg cttctttgaa tcagtaggta cgaacaagta ctcaaattag 120
tacataagaa ctcaacttct cctccccttt aagctagatc acttggaata caaaaactta 180
aattttacat aaaaaactgt tgagacaaaa ggctaaccag caagtggatt agcatgtatt 240
gttacacgat tgagccttat ctctgcaagc ggtcagaccc ctgcccctga ctgagtttta 300
ttcatgagat caagaactga agatgcatgg cttactttgc caaacacggg gtatagccca 360
tttaaagtag gctgctttgc ataagtcaag aaaaattggc ttccattagt atttgacca 420
ctattggcca ttgctaataa tcctcttgca ttgtgcttca gagattctct tatctgatcg 480
ttaaatatct tgccccatat actggttccc cctttgccag ttccagttgg atctccacct 540
tgaatcataa aacct 555

<210> 31524
<211> 508
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075f11d1

<400> 31524

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ggtatcaaca tttgaaatct gacaattaca taaaaaagcc tttcaatacc ttaataaatt   60
ccatgccact gccaaagcac caagaaaaaa caaagaaaca cgttatcatg tttcaatgca  120
cattcagaaa catgaaaaaa agagaaactt cacgagttgg gtatttttat ctttaciaaat  180
atgtgaccaa cagccatatg acaaccacca aaccactat accaatcact gataaaagca  240
tgcacaagca ggagcaacca cccttggtac gtttggttaa cactgccaag ttcttctgca  300
ctctcctcag ccgagaatct gtaacatcta catgttggtc caagtcatca atgagtctgg  360
tatgtagatt cagctcttca ttcacagcca atgcaatatg tttagtactg attacagtct  420
cctccaattt ctcaaggcca tcgtctggct ctttcataat ttggccgtga agaccaacta  480
gtccactgtt gtccaggcca acagttct                                     508

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<210> 31525

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400075g07d1

<400> 31525

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cgcacctaac ccctcattta tgtttttttc caaactaat aaacctgaag cacaggatca   60
tccaaagagg ctcaaaaaca agccaaagaa atttcaaatt tgccatgaaa tttcactttc  120
catcattcca ttccaggcta ctactcttgg cttctctcgt cccgttccca ctgtacacta  180
accaatatta ttattcccta aaaataaaat aaaaaaagga aaacagcttc cttttgtttg  240
tttctctacc cttgatcata gttcttcata aacctcattt tgtgaaaaca ctaattaggt  300
cataatagta ataataataa taataattac gaatccaccc tgctaataccc aattctcttc  360
accgacacgt tcctaaaccc ttgcatcatt ggcataccct gaaaacacat cagcccatac  420
tgctgctcca tgtaactgct cacctccttc cttatcatct catgcatcac cgccatagac  480
tccgattca aattcaacgc tcctaattcca acc                                     513

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<210> 31526

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400075g08d1

<400> 31526

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agctcaacga taaaatgggt tactttatta caagaaggag catgaattcc cagaatgggt   60
tttggaaaca aaaagattga tccataagca gatccgggta ccggattttt accccaatat  120
gggaaaatat taagtcaccc ccttggtccc taacccaaaa agctccgacg accttcgta  180
tcagtaaaca gagagtcaca tgcaggactg ggcacactca ttcatagttg atgaatgcat  240
attgctgctc catgcctcca taaagcttaa cccgcattgc taggccaac aatattacct  300
aattttgccc aatcccagat gttttgcatg ctgatgggtg actataccat tggacaaaaa  360
aaaatttgag ttcttgata taaacatgc                                     389

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<210> 31527

<211> 612

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400075g10d1

<400> 31527

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gttaaagtgt aacgtgtgtg attatttata tgaatgatga ttggcccaaa aaagagttat   60
catttaatta agttacatgc acaccagtga tttacattca tcctattcct atcctaattg  120
ccagcaaagt gaatgtaaaa aagtaatcaa atggtttagat tctcctgaat ggcaatgaat  180
gatcctacaa tctttcctcc cacatccgga aactcttcgt ggcccgggag ggatcttacc  240
ttaccctttc gatcgacttc taccgggtac ttgagcagat gccctgtcat ttctgttaca  300
tcatttgatg caaattgctt ccagttcagc tcacccattg ttctaatacct actaacacat  360
tcaaggctct ctggttgtaa gaagcagtct tcaatcgtag ccgtatgttc agcccaaagt  420
gacatectat atccatggat ttgccacga ggatgatact ggcttcttgc ccaggatatga  480
tgaggttggg acgcacccat tgcaatctcg gtgtcccttg ttacttacat agagcgctgg  540
ttgatgtttg cagaccccat tatgacatat tcatcatcaa ctatcatgcc ttttgaatga  600
acttaaatca tg                                                         612

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<210> 31528

002220"ETT5560

<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075g11d1

<400> 31528

cttggctaatt gccattttta atacattaag atcacaggat tacatccata catgtataga 60
gagaagaaga tcaagttact gtctaaagtc tcaataactc ttgctaaagt tttttcctct 120
tctttttaca aatgctcatg tttgggtctga aatcagcttc atattgcaca cacaatgtag 180
ccattggcag tggcgtgctg aagcccaaca tgtcaacttt tgggtgctgac caattcgatg 240
acttcagacc caaagaaaaa gtgctaaaat tttcatactt caactgggtgg tcgtttaaca 300
ctgcatttgg cacttttagcc gctacactgt ttgttggtga cattcaagag aggtttgggt 360
ggggattgcg gtatggaata tcagcattga agcatttcat ttggacgtag aggcatacaa 420
acacatgggtt agtatcgatg gattgatcct cgcattgtg 458

<210> 31529
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075h07d1

<400> 31529

atacccaaatt aataactctg gtgcacaaat atatataaca tcaaatacaa agaaatcttt 60
caaatccatc tacgtacctg gctacatcca ataccatata caatatatat accccatccc 120
caactttatg aatcctataa ttaatatata gctaacttaa atctctgcaa gtatagttct 180
atatgttact attcaatggt tacagggagc tagcatcccc tcccatgcca ggaattccag 240
tataccagaa tcacggtaca atatttcata attaggggact gcatgcatgt gtatatatat 300
gtcaatgaaa ataacataaa ccctctactt ttcttttctt ggtgctgcta gcgaagttaa 360
ttagccaagt ctagagaaac actcatcaga actctaagat ttctctcata aattatccaa 420
tattggttta gctagctagc tagccatcag ttcttacttg ctaggccacg aaatctggta 480
ataactgatg agcaacaaac ctctatctgt tttgaatatc aatgctctc 529

<210> 31530

<211> 565
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h08d1

<400> 31530

gaaacaaagc aacacaacac aatagcttat tcattagttc tcatccatta atttccattg 60
 aagtccgaaa acagaaacca aaaatacagg atgatgaaat ctcaaaaagc aaaaacaaat 120
 gggaaatgtag ttttaagtaca aacaaacaaa gtgggggtggc ggctacaaat gctttgcaaa 180
 tttttcacac ttagaagcct gggggcttgt aggcgatgaa gctgatgcac tgcacttggc 240
 gaacgttgtc gaatccgatg atacggatga agccgttggg gtatgcagtc ttagcctctt 300
 gaagctcctt caacacctga gaagcatcag tgcaaccaa cataggcagc ttccacatgg 360
 tccagtagcg tccatcgtag tatectggtg acctgttggtg ctacaggtag acgaaaccgt 420
 gctccaactc gaattccaag caaggaatcc atcccttctt aagaaggtag tctacttctt 480
 ttgccaattg tgcacatca aggtctggca ggtaggaaag agtctcaaac ttcttcttgc 540
 caactggtgg ccacacctgc atgca 565

<210> 31531
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h09d1

<400> 31531

aatattctaa acagcatcat aatggaaatt tcagtgtcat taagaaaata ggcagttcag 60
 aaacgcgtat aaatggaagg acaaactaaa atagcccagt acatccacaa ttcataacga 120
 agaacacgaa tgcccaaaat cttagtaaca ttgagattag cattcaacac cttctccctt 180
 tgaaaacatt acagaaggga agttcaatga ctaataagca gagagtatgg tatgtttaat 240
 tttgttcccc gtcacctttg ggtgcggctt ctttaatttc atctgcacca tcgtcctgca 300
 tgtcagaggt ccagaggggtg aggttatcac gtagcagttg catgatcaaa gtgctatcct 360
 tgtatgactc ctctcccaat gtatccaatt cagcaatagc ctcatcaaaa gcctgttttg 420
 caaggctgca agcccgatca ggagagttaa gaatctcata gtaaaacacg gagaagttca 480

gagcaagacc cagcctgata ggggtgagttg gaggcaactc ggtattagca at 532

<210> 31532
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h11d1

<400> 31532

caagacgctc aatcttggtc attcatcaaa acagcaatta tgctatctaa caaagtaatg 60
 aaccgggttt atgatgtacg actaaatgat tactcaggca tcccaactct gagaaatata 120
 aacaaagcat aaaactgaaa taaattgact caagatcaag gaaaaactct cgtagtagta 180
 gcccgcaatg taacaaaaac aatcaccaat gataaagcat ataggttgat tcttttaatg 240
 atattttggt ggtggctatg taggatttac tttctccaat ctggaaggac ataattgatt 300
 ctccaaactg aatcagaagt ctttggtata taccagatgt tcaaggagtc acaattttgt 360
 atgttttcta accatcacia attcaaaaca cagcagatg gatagcttaa cctgctgctt 420
 ggaaatcacc aaaatcatca tctggtacat cctctgtgct tcgattctca ggagaattct 480
 catgctctgt gtcttcttta actggtttag gagtct 516

<210> 31533
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075h12d1

<400> 31533

atataattca tattcttctt aaaagaaaac attcaatatg tatttgtcca aataacaatg 60
 aaactctcac tctaattttc aagtcactgt gtttctcttt gtttcactat tgctatgctc 120
 actttccggg gacaaagttt gtagcatagg ccaggcatt attgtttacc gggtcagcta 180
 ggtgatcagc aagggtttcc aaaggtccct ttctgtcac aatggcctga acaaagaaac 240
 caaacatgga gaacatggcc aacctaccat tcttgagctc tttcaccttc aactcagcaa 300
 aagcctctgg gtcacagca aggccaatg ggtcaaagct gccacctggg tagattgggt 360
 cagtcacttc accgagaggc ccaccagcaa tacggtagcc ctcaacagca cccatcanga 420

002250" ETTES0

taacttgagt ggcccagatg gcaaggatgc tttgtgcatg gatcaggctt gggttgcca 480
agtagtcaag cccaccctta ctaaata 507

<210> 31534
<211> 377
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076a01d1

<400> 31534

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gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaactc caagttgaag 120
acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
tcccaattga acttgggagg acctgaatta ttggtcactg aggaggggtg ggggtggtgat 240
gtggcttgca cagggattaa tgggtgggaca gaatcaaaca actcccaatt tgtggtaact 300
acaactcctg aggtggaatt ccttgagggt tgttcttggt gctcttgata tagtgctaga 360
gaattctcac ttgagtt 377

<210> 31535
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076a02d1

<400> 31535

atgataatca ctatcatagc aacccccattt attctcaagt aaatgacaga ttataagggg 60
gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaactc caagttgaag 120
acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
tcccaattga acttgggagg acctgaatta ttggtcactg aggagggcgg ggggtggcgat 240
tgtggcttgc acagggctta atgggtgggac agaatacaac aactcccaac ctgtggttac 300
taccactcct gtgggtggaat tccttgagggt gtgctcttgt tgctcttgat ttggggccag 360
agaattctta cttgagttcc ttgggtgttc ttggtgcoga tcctgaattg gtgctatggg 420
ccatctatga ccttcattta aatgcttttg 450

<210> 31536
 <211> 133
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076a03d1

<400> 31536

aacttggtca tttttttttt gttggattta cgcttttcca tttgattcct tatgtataca 60
 aatcttttca aggattacac atgctgtaag caaccaatct tttgggggaa gggggccaga 120
 ttccaggtta aaa 133

<210> 31537
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076a05d1

<400> 31537

agctagtaaa acaaaactga tttaaataaa agttacatca ctttgaacat aacatttggc 60
 aagatgaaaa acaaaaatgc acaagctgaa aatgaatgga catacattac agaatacaga 120
 taccgaattg ccatcaatca attaatagcc tagccttgaa ttctttggac aagattccca 180
 attgtcacta atatttaaca ggtttctcag ttgaataacc atgcacttta tcagaggatg 240
 gtattgttat ttgatttgca ggaagactgc aagaaggaaa cacaacaagt cacagttcca 300
 aaccttccaa aatctgcatg aattgatcac gggtgaaact cctaaagcaa catgagattc 360
 ttttaaccggt tccttgagat tggtttcctg gttcaagtgc cttctggaga ggatggggtc 420
 gggatagcaa gctaagctgg ctactttcca tatttgaaag gtacctgaa 469

<210> 31538
 <211> 379
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b01d1

<400> 31538

caacccaaac taggagattc atgttcataa tcatatacac catgcaaaag cagacaataa 60

gtgaagtctc ctagtgtaac gtacacacca aatggtagat tctcacgaag ccaaatatgg 120
 aaaataaaact ccaaaagaag agcaagaaga aaccctaaac catcaaatta gaatgggcta 180
 tttggatata ttgttctttg acagccctga agtaccgttt tcttttcctt tcccagtttc 240
 cttcccgttt gatagggtag gtttagccaa ggctactttg ctttcgttgt ggttcattctt 300
 gtccaatttg gttttttgca cctggccatt gagattcttt gtttgggtgg tctgaactcg 360
 aacccgact tcagggacg 379

<210> 31539
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b02d1

<400> 31539
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 atctcaaata aatttgtttt acaaaatcaa aacatacata caaaattcgc aggttaagaa 120
 accaaccctt caggaaaatc ttgaaagtta aaacacttca gccaccttgc tcgcaagaac 180
 ccgctccctc cgttcaatgt aactaaacgg aaaccaacct gccctgcctt tgcattcacc 240
 ctcggcccat ccgctgtttg tcacctttcg aacaacaacg taatcaccaa ctgatagatt 300
 tagctccact tcagatacag cagaatatgg aaataaaacc tctcctaaga agtaacccat 360
 gctatctgtt gatccattgt gtgcctgaga agcaaagaca ccattcactt cttcatatga 420
 cggaggtggt ggcatgctgt tatccacact aagagttgtg ggggtttcaa ttcggtgtcg 480
 ctctgatgtc acctctccct caagctgac aagtttttgt agactatttg atga 534

<210> 31540
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b05d1

<400> 31540
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 cgatccatca aagggtactat aacgcaaaga aacctcacac tctaagatac attttatgat 120

taactcattt agctgaaagg catagctaga aacattgttt ttatctactt cctaggtcga 180
 accaaaaaaaa aatcaaaact aaaaagggaa ataacaaagg tttcataaaa tcagatttca 240
 tctgttatag gaacatcatc tgtaaccccc aactacacca agaggacaaa gaacttcaca 300
 acaccaaccc caaaacaacc ctaccccacc gaccactctt tctcacttac taccctctct 360
 cttggcacga gccttttggg ccggagactt tacactcttc ggtttcacac tcttcactgg 420
 cgttttcttc gctgccaccg caactttctt tgccgcgggc ttagcagcag gagctgcttt 480
 ctttctggt gaagtcctcg tcgacgtcct tgaagacctg acaggcttg 529

<210> 31541
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c01d1

<400> 31541

atacaaacag aatttcttca ttaacactta acagcaaaca cgagaacatt caatcacccc 60
 aaatacataa cttaaccata cataggtaga tgaaggaatc atattccttc tattcacttt 120
 tattgaaaac cagggaaagt actgcaacaa ccatagagcc cctagatgga gatactgttg 180
 ggaattcctc tgaaagtcaa tccctcctca ctagaaggat agagcaaagt gtaaggcatt 240
 ttagccggcc cactgcgggt tctcaacgtc tcgtccttgt tcttctgtat aagcttttgt 300
 tcaatctctt gaagcttctt tccaaacctc ttgaaggcct ctagtggacc agcatcagaa 360
 gtccaatagt caccaccatc tctctcccca aggtagaact catc 404

<210> 31542
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400076c02d1

<400> 31542

gtcataaaaa tataagttgg aacatcaaca caatagataa tcagttgttc acatagtctc 60
 atacaagcat aacagtttaa tatgggtgat cactgataag aacacaaagc aaacaatcct 120

agatgtggac agatacacac aattttcatg ttacactggt acagacaatt tcagggttcag 180
 tagctatggt acatataaaa cacagttaca gaattcataa cctaatacaa ttatatcagt 240
 gtctgtgatt ctacaagcac actcatgggc ttccactcta tcacacaaca tagaatagag 300
 caaacactgg ttacgctcaa gaggcagaga cagttggctg aaattcctcc tcggatcgat 360
 tcaaggaaat cagttctggt gcattgtcag cacagaagtt gttctctatg ntngtcagcc 420
 actttttgta gttgatga 438

<210> 31543
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c03d1

<400> 31543

accacaacaa gaagttcaat atatcacatt tacaatacaa agggatctca ttttgaaaat 60
 tagagtgaaa aaaaaaatgg aatatccaaa ttctggtttt tatcataaaa acccaacata 120
 aacaagaggg ttgattgaca ggtcacctca tcacaaacag ttcaaactaa actctattat 180
 gtagttctag ttgcatgtat gtctcaagtc caaatataga tgacaaaagg aaatgaaaaa 240
 agatagtttt gatztatcca gcaaacagtt gacattaatt gactccaagg ataaagatct 300
 ccacctctc acaaaaatac agcctcagtc ttctttcttg attgagtctt ttaattcacc 360
 accggaaggt atcttatact gaagatttgt tattgtagtt ttcaacagac catctccaac 420
 tattaacctc agcatcttca caaaat 446

<210> 31544
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c04d1

<400> 31544

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 aaaatgtata acacttaatg tagtccatat aaaactgaaa tgagtcccat taacagttgc 120
 ataccgttgg tcaaaagcat ctaaagataa cataaggtac cgggggggat aaaaacacca 180

cctagaaaca ttgtggcggt ccatatggct gacagccaat gattcctcaa atgtcataca 240
 agaaatcctt aaacaccttc atatggtcgg gctgaagagc tatggccaca gataagctcc 300
 catcattggt tgagcttga attatgaaag acaggccctc gtatgcaatt ccaccaggtc 360
 ccatgaatat aggcctttcc caaccaaagt cagcatcatg gattggaagc ctagtccagc 420
 tagtgatacc aagatttga cacttgaaag tatgagcccc gcga 464

<210> 31545
 <211> 422
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c05d1

<400> 31545
 atatgaactc ctccatgttt atatatactt ctttgtttgc ctttatttgc cccatgtagg 60
 actttattgt tctctaacaa gaagagtaaa ttaattcaat tgactcactc ttattgaatt 120
 acttaatttt aacattgtta cctttatcta aaatataatt tgtacaaact cctactgcac 180
 ttgatttgggt gcaggcaagt ccaaattctt aaaagatgtg aaacctccat ccacaaccaa 240
 gttgtgtcca ctaacatatt tggcatcatc agacacacgg aaaagtgcag cattagcaat 300
 atcattgggt tcacaatttg ctccctttaa gacaccaaca ttgcgaacaa tgtgctcatg 360
 tgtttgagca tcaacatgag gatatatctg actcatttcc tccatgacaa gaagaggggg 420
 ga 422

<210> 31546
 <211> 311
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076d01d1

<400> 31546
 aacaacaaat aaatgctaaa ttttctattg caaatatata ttgcatgcta aatataaagc 60
 agacactaag atgtaaacad tgaacagAAC aaattttcaa atactacact ataataactt 120
 atttttatat acaaaaaata aaactgcagg cttaagctct gatattggtg aagattctta 180
 cagtatctaa aatctttcta ttccatttct ttttaatttt ctcaattcac aattctttga 240

agccaaatct ctaacgtatc catttttccc ttggtaggtg tacacatgtg gaactgacaa 300
 gggtcacatg g 311

<210> 31547
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076d03d1
 <400> 31547

ggattgggag aaactttaca tgggaaacat ttttttact tggggcaaaa gttttgaagc 60
 caaccatata aatcccaact tatagggaat ttttaaaaaa cacatgggcc ccctttttga 120
 ttacaaagga gagatgcctt attccgaaaa agttataaat aacatttcac ctgggatttc 180
 aaactaattt aaataaggca catgttttaa aaaaaataag gaaacctctc aaaacatatg 240
 ggggtttctac aaacaccacc cacaaataac attttttttt gcagggggggg ttttcaccaa 300
 cagatccagg gatgtggcat ggggttttga ccaaaaactt atgcatgtgg cagatctttc 360
 tagggtaaaa agggaaacca tgggatgccc ttccattttt ttggtgcctt ttgggccaat 420
 tcaatccaca aattt 435

<210> 31548
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076e02d1
 <400> 31548

aagcaaaagg tcttttgccc tgatattatt acatgaacaa atcaccttaa agttgttgtg 60
 atttatagtg ataaatttta gttgaaacaa cttattacat ttacaagaca aaaagggcaa 120
 ctgtgattta cacttttgag tagtatactg tctcatgtat atatataaaa aagcaaaagg 180
 gggaccaagc tgtagaatga gaatcctaag aacaaataat tgcactaaga aaacgtggca 240
 catttcacca agcaaatcat ataaccaatg gcctgatatc tacggaaaat tcatgcttct 300
 ggaatgggtg ggagtagttt ctgagcaaac tgaagatgcc catgattaac ttcagaagtt 360
 ttaacaggtg catggaagta ggtagcttga tttgaccgga aagatatact tttcgaggga 420

actgttggtgta atgtgcgctt aagcc

445

<210> 31549
<211> 472
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076e04d1

<400> 31549

ggaaaaaaat atttgcaccc ttgcgtcagt ccaaaccaat acagttcaca atgcaataat 60
taatttttttc cccgtcatac ctcatgctct agaggacaat acagtggcaa cagtcgtcta 120
acctcgcaaa aacgtcaagc caatcaaata cagtgaact tcagacatac ataattattc 180
taaagtagat tacaatgtac aaggaaaaag agaaaagagc aaacacatgc tgccagaaga 240
gaagagctga ggcttcacta actgcatatc cccttaagct ggcaattgct cccaaaaaaa 300
tagcacttgg cgtagtgtac tgtagcaaaa gcacaaatct aaacatagca tcattctcaa 360
ctagggaaat tagctaattc gacaatgcc cattcccaat tccaaggaca ggagggtcca 420
ggagcccttg caaaagtaat accaatagta gttttaagcc caagttttaga ct 472

<210> 31550
<211> 327
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076e05d1

<400> 31550

aaaacaggaa ataaatggaa atcaattagc aagcaagatc tgcaagacca cattttaacc 60
tcattgcgac atagttgagg gcatgtccaa gcctcttacc taaagaatca aaaataatat 120
tacatgtgaa ggaaaccagg aatacaacac agtcttttct gggtccaacc ttacttcctt 180
ttatcctatg attgggcac aaactatgt cacctccttt ctcttccttt tgattttgca 240
tcaaaaggat gagacttaag cttttttttc cgaatgggag tggaaggacc acttcctctt 300
ctgaagggct taccataag agctaac 327

<210> 31551
<211> 430
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076f04d1

<400> 31551

gtcaataact attttactgt tattaagact gcacggtcag tacaacattg aggaaggtgc 60
 ttacatcggg tcctttgtat tgtagccttc ttttcaattc ttctctcttg ctatgctatt 120
 taagtacatg acttaaaactt caatcaataa ctatagttga aaatacatat accaccaata 180
 tattgcttac attataaaatt ttcttgagaa caaatgaaag taaataaaaac attaaaaacc 240
 aaagatattc acatgtactc agatgtcagc acagcattga attgcttgat gactagtata 300
 gtagcactca tcgcctcgaa ttcattggtg gaagctgtac ttattaccac catggttcag 360
 cccgtacttc tgtctcattc gcgagctcca aaaatcagag tgatttccac tattttcacc 420
 tttgctagac 430

<210> 31552

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076f05d1

<400> 31552

aaggataata tacaatccag cataaccaa gcagaggggt taaaaccaa cgaaaccaca 60
 gactaatagc actcgaatta gcaaccagat acacgcacta tttctctcgc tcataaatat 120
 aaatgacaag taggaaaaaa aagagaaaga cacagcctc actactatgg tcccatacac 180
 cttataagat atataggtga tgcagcagtg ggagataatc taatcactgt cactgctgct 240
 gctgctgtca tggccatggt catgcttctt attctcctc ttcttcttct tcttctcgcc 300
 ctggcggtg gcgccacct cctcgccgag gatcttgctc ttgatcttgt ctaggaacct 360
 ctctttgtgc tcttcttctc catggtgctc cggtggtgc tcaccaacat gatgctctcc 420
 tttgtattca gtactgtggt caccatgatg ct 452

<210> 31553

<211> 362

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g02d1

<400> 31553

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aaaaaagcca agtacattca tgttttaacc attgacattc atatgtatgc atgatcccaa   60
tttactgggtt tcattttctca ctatttggtc cctatatgcg agtgcacgtg ccccttgatt  120
atgcggttac accttgctaa gcataaagaa ttcaaaagaa ttagcttata aactaaaatt  180
acatggcaca ggagggaac ttaaacctgg tagtgaacta atgccaacat acaaattcag  240
tatttgtttt cctttgaaaa atttgcaaaa cttagtagaa tgacttaaaa ttcttgtaat  300
cccgccataa ggcaacagct taaaaggtaa ttccttgttt ttcttgcaaa aactttccca  360
tg                                                                    362

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<210> 31554

<211> 472

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g03d1

<400> 31554

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gaaaaacaaa tgtattatth ttatttatgc tagagggtgac aaaatatctt gatattaatg   60
taaataaacc tgaaagaaaa atgcggggtga tctccatcct tgtctttgga ggtgcaacca  120
ggtcttaact tacagactag gagcggtgac caattgacag aagggtggatt cttgcatcca  180
attcaattta cataaccaaa gatgggcctt agacagatta ttaataagca ttattctgaa  240
atgggggaatg cctctcaatc caagggtttc aagaaccact tgttaaaaga tgccttcctt  300
ttaaagaatt ggaagccaaa tgatattttt cagctccatc cttaagttct cgataagtaa  360
accattggg tagagaacca atccaatttt ctggtcccag tgacaagata acctccaaca  420
gccctttttt gcataaaaaa gactgtgttg atgggttgag cgcccctttt gc           472

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<210> 31555

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g04d1

<400> 31555

gaaaaacaaa tgtattattt ttattttattc tagagggtgac aaaatatctt tatatcaatg 60
 taaataaacc tgaaagaaaa atgcgggtga tctccatcct tgtctttgga ggtgcaacca 120
 ggtttttatc tacagactag gagcgtgtgc caattgacag aagttggatt cttgcatcca 180
 attcaattta cataacaaaa gatgggcctt agacagataa tttaaaagca ttatcctgaa 240
 acggggaatg ccttacaatc caagggtttc aagaaccact tgtaaaaga tgccttcctt 300
 ttaaaaatct ggaagcaaaa tgatattttt cagggtccatc cttatgtctt cgataagtaa 360
 ccccatggg tggagaacca atcaaatttc tgggtcccagt gacatgaaaa cctcaacagc 420
 cccttttggc ataaagatga ctgtgttgat gggttgagcg ccccttttgc acagggtgcc 480
 tggttt 486

<210> 31556
 <211> 253
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076g05d1
 <400> 31556

aggatgtcag aacggaagtt accccttcga caataataaa aacgcagggg atacactgtt 60
 cactttctca caatcatttc atcaaact acttatcttt aagccacaca ctacagttat 120
 ggaacatcaa cagtattatc atcatatcat cattttcatc aattctgaat ctagcttcca 180
 cacaaaggca ttactgctgg gcgcactgta ccctctgtgc accaccaggc atgtcatcat 240
 cctcatcata tgc 253

<210> 31557
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076h03d1
 <400> 31557

aacgggaaca ccctcttttt gattttgatt ttaaaaaaca cattgggggg gcttacttac 60
 aaacagagag tacctgtttt tagtggatcc cggtaaaaat ttcaaaagaa cattctatta 120
 acaaatttgg ggggagaggg gagaaacccc cagagttaga gacgtggaaa gttttggttt 180

ttagacatat ttttaagggcg acggtcaaaa aactttccac ataaagcagg ggaatgaatt 240
 tcttaggcct tttccactt gagggggtgg gccacttccc atgggaaggc aggggtttttt 300
 ctttaaagtg gccataggca gcagttttca aaaacctggt tttttccccc cttttga 357

<210> 31558
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076h04d1

<400> 31558

aaaaaaaaa ttaacactaa tccgaagaat ttgaatgaaa aaaaaatgat gtaatcaaatt 60
 cacaaattca caatacagtc atgtccaaag ctcaagtgc cgacgaaaac agaatgaata 120
 attgactctg attctctaaa gaggggtcct gtctgacca attaactcaa ttttaagaaac 180
 ggcgattaat tacagatgga tggaattgta tcgtaatcga taatcttcag aattgtggat 240
 gaatgtgaac ggcgtacctt tgaatgccgc tttccacatg gagcgttgcg tgattgggtt 300
 acatgtgtaa gcgcctacca caccggactg ttacacttaa acccactccc aaacgcaatg 360
 tgccaaaccc tgtgcccctt tctgatcctc ccctttgcct tcgggtaagc caactcgtcc 420
 caaa 424

<210> 31559
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076h05d1

<400> 31559

gacaacaata aggaaaatta gtttttagta acaaaaaata tccatagtat aaattaatga 60
 caattattta gaacacatgg ctttaaggta aacagaatga tacaacttac agctgatctg 120
 gaaagacaac aaagcaatga atcgagagat ccctaaaaac acagaaaaaa cgttttcctt 180
 agtatataaa gtgcctcaac atcatgttta gcagcgcatg gtctctacat taaaattaca 240
 tagcagcaca gattgcccta tatataaatt cctacttctc caggaacata caccaaggct 300
 ttggggctta tgtgggctat attgcctact ggctaacgaa accaaaggga ggaaaattgg 360

cgtttttttta taaaaccaac cagttaaaat tgggcagaac acttgggcaa gaccacccc 419

<210> 31560
 <211> 412
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a01d1

<400> 31560

atatatataa tccttaaaat gtaatttgct attcgatatt ggcagggtag attgaacttg 60
 ttcatatttc ttttcctaag agaaaattac gtttttccgg gaaagcttg gaaagtagca 120
 ccacaaccac aacctgaatc tcaaaaccca aatgcagctt gacatgaatc catgccaaag 180
 aacttaaadc tttttgagaa attccatgat gttggtattg aaagcacagc aaacaactcg 240
 gaaaccttgg aatccagacc ctttggccag agcctcaaac tctttctctg ttctctcttt 300
 cccacctgga ttatgtgcca acatgatcac atcgatgtga accacacctt ttgtggccaa 360
 gctagagtct ggagccactg gaagaatgca ttctgccaca aatacctttc ca 412

<210> 31561
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a05d1

<400> 31561

gtcataaaac atttccaact tttcatcatt cacgggaagt tctagaagtt caaaatatcc 60
 aaatataaaa ccgcacatc aaatcaatta ttatacatc atccatcata ttcgcaaact 120
 tcaagcaaaa tacaggattt tgcaaatgtc acgataagtt acaggaaatg tacagaagcc 180
 taacagcaca ttgccagcga cctgcaacct catcttccac gccttggtga caattcagca 240
 gatcttgatc tagatccagg tggatgatctc gacgacttgc actgaccacg atcagcatca 300
 gacttgtaga tagatttctc agcatatcca ttgctttgat tctgttcaat accattgcca 360
 taagcaggag aataagacct acgcttgtgt tcaccatccc tttgcctggg aggacctctt 420
 ggtgatctgg ggtgctcagc ttgcctccta agggaaacag agtaatca 468

<210> 31562

<211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a06d1

<400> 31562

acacttcaag agataaacia acggaagtat acaaagatta ctaaagccac acactttctg 60
 gcataagatt ttagataaa cacttgcgaa cctgactatg gtcaagccgg ggcaggtata 120
 tgccacacta gtgcgctgca acatagcagc tacccgaata gaagacatct acagagccag 180
 gcaagacatg tgaccatggg aatgcatatc aaataacaat cggagaagct acaaacactg 240
 ccacggcaca tcataccatg tagcaagcat gtaaggggag ctgatcacac taataaacgg 300
 ctcacgtgag ctgaacaaaa gggaccaaac tgtgggcatc aacgactccg ggcaaaaagg 360
 cctacacaaa cgccacctga ggcgaggcat gttgaagtgc ctgacccctc cttgccgctc 420
 cgagagacac ccttcacaga gaaa 444

<210> 31563
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a07d1

<400> 31563

gggtgatata atccccacaca aatctttatt gcaattatca atgaatgagt caacaagata 60
 taacacatta gaatacagag gtaaaaccct taggtataaa ctacaattgt ctatagctta 120
 ataacaaaat gtgacacaat agaaaaagca gccaacactg atatgacctc taaatttcca 180
 ccatggagtg aagggtgaaca tgctcaatca gccttctgat tctttggacc aaaaattcct 240
 ttgactgtct caaatacctc ttcgataggc cttgcagcat caatcttgcg aacttttccc 300
 tttgcatcat aataattaat cacgggaaga ctagactcca agaaaaccat aaatcgctta 360
 cttattgtct caatattgac atcttctcta ccctgggtcc tactaagtag tcgcctctcc 420
 atctgttgct cagggcactc aaaaaatagg acaaagtctg gttctattcc tgtcactttt 480
 tcaaagtctg cac 493

<210> 31564

<211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a08d1

<400> 31564

aatgatccaa ctgtctgatc ttacacagg aaatttcac caatgcatgg aaaagaagta 60
 acaaccatgt ttgcaacctt acatttaaag tgcttacaca tttcaactgc ggctcaaatac 120
 acaatcaatc atcatcatca tccatatttt taacatatgg tcaaaacttt ttatataggc 180
 agatgactta gcaatctata gaaatgcagg tctgggaaat gcttgcaactg tcaggtctgc 240
 tgataaaagg gttaatcttg acccaaacca gagagaaaac agaagccaac atcactgacc 300
 acagaataac aatggttggg gtgcgggtttt ggcgacccat gagacccttg aggaatggat 360
 agagatggaa aatgaccagc aaggcaaaga aaacctttcc aaaaagtggc cccaagact 420
 catatcctcc attgagtgc tcaaaaaatg cagcaacaac accaaccata ttaataatga 480
 taagggttgt tgg 493

<210> 31565
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a09d1

<400> 31565

aagagtctat tcattaggtc tcattcatta agttccattg aagtcgaaa acagaaacca 60
 aaaatacagg atgatgaaat ctcaaaaagc aaaaacaaat gggaatgtag ttaagtaca 120
 aacaaacaaa gtgggggtggc ggctacaaat gctttgcaaa tttttcacac ttagaagcct 180
 gggggcctgt aggcgatgaa gctgatgcac tgcacttggc gaacgttgtc gaatccgatg 240
 atacggatga agccgttggg gtatgcagtc ttagcctctt gaagctcctt gaacacctga 300
 gaagcatcag tgcaacacaaa cataggcagc ttgcacatgg tccagtagcg tccatcgtag 360
 tatcctgggtg acctgttgtg ctacgggtac acgaaaccgt gctccaactc gaattgcaag 420
 caaggaatgc atcccttctt aaggaggtat tgtacttctt ttgcaattgt gcatcatcaa 480
 agtctggcac gtaggaaaga ggttaaactt 510

<210> 31566
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a12d1

<400> 31566

aatataaaat tgtatTTTTT ttttgttttc actggagaac atgaccaaga gaggattaaa 60
 aaaaaaaaaa aagttacaac atagatttca gattttatct aatgggtaat aacacctatc 120
 tatctccctc tttcttccga ttaccattct ccttcggatc gatcgagtta tgtctcactg 180
 tacattaacc ataattattg cctaaaaaca ttgattaaaa ataaaaaaga acagggaaaa 240
 aaacagattc ttcttatttt tttccatta ggaggagcaa atgaacattc ttttctccga 300
 tgatactatt tacgaatcaa cctgctaata tccaatacgc ttgacggaag cgttcctaaa 360
 cccatcattc accgcagcct gaaaacacat cccattctga ttgtgcaact ctatataact 420
 cctcacctcc ttccttatca tttcctgcat caccgaccga aactctgcgc taaaattaaa 480
 cggcgccatc accgtcgtg aaaccgacgt catcattggc agcaaag 527

<210> 31567
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077b02d1

<400> 31567

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 tttaatcacg atatcagctg aactaggata cgaacagaaa tccaagcatc aacgctgtcc 120
 aactgataaa cataatggac aatattagac tattactgct acaagttgat agttctacca 180
 tccaagaagg aaaaagatga aaattacgat tctgtgatgt tagaaaaaac ttctcattct 240
 tcatcagagc ctgaactttc tgcagctttg ccatgtttat tcacggcgcc attgacagct 300
 tgtttcttat tttttgtggc ctggccatct tcttcatctt cactgtactc actctcatag 360
 gcatcatcat actcttcac ctcgatgagc tcatgctgct caactacatc ctccatgata 420
 ggggncttca tcagccaaaa cagcaccctt ggtgccagcc cgagttcggt caaaactttg 480

agc

483

<210> 31568
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b04d1

<400> 31568

gctggttcag tgtttacatt tttcattaca atttccacaa caaagaaata atctaacgtt 60
 taatcataat ctaagaatgc tataacatac aaagtactct tctttcctcg atattggata 120
 acccacaatt cattcggata agaaatctct tctatttgta tttagaggaa gcgcagctgc 180
 agcaattttc tcccgcagggt tgaatttctt tgcaattagt ggccggacat catcaacacc 240
 aaccaagctc tccaagaacg gaagtaacaa aaacaattct tgatctgaac gatcatcaaa 300
 ccaactctcg attgggattc cattatccac ttggaatcca aatgcctgtg ggggaattgtc 360
 aattattata acatgtgcca aatcacgacc aagcactgtt aaatctttga ggtaattccc 420
 ctccacataa acacaggact cacggtatac acggtggcga aatatcttcc gctttggatc 480
 aagcacattt aagaagttgc tcggcataaa tgctctgact agcagtaaata ttaataatct 540
 caaaaaga 548

<210> 31569
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b05d1

<400> 31569

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 accatcacc ctaaactcca gcaccagcag cttgctcact tcaatacaca actcccagaa 120
 tttctcatgt caccacgtgg caagcacgct gatgtggagc caagtgttgt gcttacacgt 180
 aggtgtaccc tocataatac aaccaaagac ttaagcatca tataataata ttaataaagt 240
 aaactaaaga aataaaaaga aaaaaaaaaa agaggctttt caacatggca tgcaaaatgg 300
 tagacctgat ccccaact aggaccattt ttaaacttgt ttttctcact cacactgtcc 360

ataggtctaa gcttcagtct tctcaacagg aacctctact ggggtttcaa ctgactcagc 420
 tggtttggtc tcttctctctg tgggtgctgg tgggtgctgct gctgctgatt ctgtttcagt 480
 agtttct 487

<210> 31570
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b07d1

<400> 31570

ggcaacaact ttcaaacatt acattacatc tttgaaattg gaaaaggag gacatattat 60
 gaagaatgca aatgatagca actaacctta taattctctt ttgcatttct ccttgatttt 120
 gcaagaaagg caatttgtgt acaaaaggga aaatgaaaa gtatacacta tgtagaaaac 180
 tgcactgatt atgcagaggg gagtgattaa aacacgttat tgactctttc actagtaagt 240
 gtcagtacat taaaaaaact tgactgtaca acaaaatctc acaaaataca aaatgccctg 300
 aagaacaaaa aactcaaaat ttggtttttc agtacctctt gttaaatgtc acctggaaat 360
 tgagaactaa cagcaacaca tggggcaacg aattagtcca ttttcattgc aatcagggca 420
 acgctggaat ccacactccc ctac 444

<210> 31571
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b08d1

<400> 31571

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 acttccccta cttgcaaacc acacataatt ggaaaatcta agaagttgat cggttgaagc 180
 ctaatcaatt ctacttgga gtgatatgga ggagtcaagc catggcccc ccattgattt 240
 gcttctttgc tctatactat cttctgagaa tgcagaagag acttgagttt gactgtcttg 300
 tgatagcatc tcaaaggctt taaatcttac atcttctgca ctgtcaccgc gtttaataat 360

tggtgcttga attggagttt ttccatcaag catgctcact actgatgaca tacatgggtct 420
aagagtggga gaaggattgg tgcacaagag tgctaactgc agcattctca tggcctcttc 480
tgaggaggac tttgaaccaa g 501

<210> 31572
<211> 491
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400077b09d1
<400> 31572

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atacaaatca atttacaacg gcaatgctga gaagattatt gaggcaaag aactgcatat 120
attctaatac aatgcacaag agtacgatag gatttctaca gaaaccccg t gatgtttta 180
gaacaaacgt agctatattg gaaatagaat gggataacgt tctaagtaca ataattttat 240
aggacacggg caaatcatct tatggagttg aaattgtagg aattgtattg tgaattggaa 300
aatgtagaag accgtgcttt atcagatttg ggtgaagttt acgaataggt tttctgaaga 360
aagtctctgg cttaaaaaat gactttggct taagggatag gtttaacaat tggaaatgg 420
ttaggtatgg gtttaaaaac tggaatagga ataggtttta caataggaac aggctttgg 480
ataggcttaa a 491

<210> 31573
<211> 52
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400077b11a1
<400> 31573

aaaaaatatg cggggagcta gatgcaggct ccgtagaaca gctatgacgt tt 52

<210> 31574
<211> 64
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<223> Clone ID: jC-gmst02400077b11d1

<400> 31574

gaaaaaaaaag agggggcggg tgatccgatg tcgacttcna gcagaacaat ttccccggatt 60
gacc 64

<210> 31575

<211> 580

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077c01d1

<400> 31575

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cttcaaatcc ttaggaaggt caatgatgca gcagttaaga aagtgaatca tcttctaaag 180
tgttctctca taaagaagga atgtctaaga gcttccttgg ctgtaagtct ttcagagggg 240
tcatatctaa gtaaccctg caagagatgt atgagatcgc cagctgaatg atctacatgc 300
tgcattacaa ggttctgaag cctaggaagc ttcattacag ctttgatact ctccctcgag 360
gttgcaccct caggccagtc taatctaccc cttgtaacat acttctcagc atgtcggtcg 420
actctcttca tcatgggctg tggaatgaa ccaagtaccc tttccatcat tgcaagatgc 480
tctaaatddd catggagtcg gaaacaagct tcacctgtgc ctaatttaac caatatacat 540
cccacactcc atatatcaca tggatagctc cagccaagtc 580

<210> 31576

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077c02d1

<400> 31576

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aaatacatat aaatcaattd acaacggcaa tgctgagaag attattgagg caaatgaact 120
gcatatatgc taatacaatg cacaagagta cgattggatt tctacagaaa ccccgtgat 180

gttttagaac aaacgtagct atattggaaa tagaatggga taacgtgcta agtacaataa 240
 ttctatagga cacgggcaaa tcatcttatg gagttgaaat tgtgggaatc gaatcgcgaa 300
 ttggaaaatg tacaagaccg ggctttatca gatgtgggtg aagcataaga ataggttctc 360
 tgaacaaagt ttctggctta aaaaatgact gtggcttaag ggataggttt aacaattgga 420
 aaaggtgtag gtatcggttt aaaaactgga 450

<210> 31577
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c03d1
 <400> 31577

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 tctgaacaat catttttaag tacagaaagc tacataactt taccaccaac ttctttttct 120
 gtcctctttc tcaggaaggg gcaggcaaca aatcacaatc ttacaaaatc ttcaacgaca 180
 tgaattcagg agtttaagtt gttaggatat ctggaattgt cgtggagtga gccccagta 240
 tcttaccccc ggcatcgggg aaattctcac agtcaggtag ggatctaatc ttgccatcgg 300
 aatctacctg tgcaggatac ttaagaagat gtccctgcaa aagtgagaaa tcttcagaag 360
 cgaataattg ccaattgttg tctgcaattt tattcacttt atgcacacac tccaatctct 420
 ctggttcttg aaaagtttca tctaactgc caagatgctc tcccaaagt gacat 475

<210> 31578
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c06d1
 <400> 31578

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 gttttgccta aaactaaggg cacgagatag attaacatat gcaactttac ctaagcggag 120
 agaacatttt tgcaattaaa attgctgcct accaaatcac aaggcaacat cgggtggacca 180
 agacctctca atatatatat gaatctcgac acaaaggatg aaggggacagg cttttgatgt 240

acaagattta atcaaactgg tcccaaactg gagttacttt gggatgaagac aagttatcgg 300
 atggggcatc cgagctttcc attccagaat caaaggtttc ccattgggtt gtaacttaga 360
 catcattgct actggtgcta aaag 384

<210> 31579
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c08d1
 <400> 31579

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 tttgatgtat gactgaatgg cattatagat tcaaactcagg aggaggcttg attatggagc 120
 ttatatgaaa gaatacaaaa caaatcaatc atcatgtttc atttttgagg ggtaaaatca 180
 tcattttttt tttattcttt ttttctcccc gcacttgagc aatagaaata catctcagat 240
 ggcacaaatt aaccataat ggcattatta ggtcattgac aaatctgtat caatgaataa 300
 gatattcatc ccaaactgca tgcaaagtca ggtcaagctg gctcttctaa gagaatctcc 360
 gaacagctca ttcccaggca aagacgggag aaactgtcaa tttagaatag atgaacgtat 420
 ctggaaacct tcatcacctt cagaaagcag cggaatctt gtcaagaaat tgccaca 477

<210> 31580
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077c10d1
 <400> 31580

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 tcgcaaacia caggctctaa accaccaa atagaacataa tgttgatcac ttcacagttt 120
 gaataatgga gaactatatt acacagcagg agcaaaaaca aaaaagaacg aacaataatg 180
 gttcagggtg atgtaacgaa gcatataccc ttttaactcg gaaacaatta cattgataac 240
 aaaaaaaaaa ccttcgatta tcaatagtcc tctccttct catcatcttc cgctccttca 300
 gctccaacct cctcatagtc cttctcaaga gcagcaagggt cctcacgagc ctcagaaaac 360

tccccttctt ccataccctc accaacatac cagtgaacaa aagccctctt ggcatacatc 420
 agatcaaact tgtggtcaat gcgagagaac acctcancaa ctgcgggggtt gttgctgac 480
 atgcatacag cacgcttgac ctttagcagg tcaccaccag gaaca 525

<210> 31581
 <211> 567
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077c12d1

<400> 31581

aaaaatatat attaaatddd tttcactggg tattaaacca taaaccacgt gtttaccagt 60
 ttggtgacaa ctctgggttt ataaatcttg actataatgt atgagtatga ccataaaaaa 120
 gcattgcac aacgtcatag taagacataa ttcagtttcc ataataagga cactaggaat 180
 ttattggaat ttaggacatc aaaaacttaa cattggtgta acttgcagaa tatccctcct 240
 ggaagttatt catgcataat agttctccac gaaacaaata caacgatgac aaaaaccaga 300
 attacaagac acattaatgg aaagcactat ctctaaggcc aggttcggta ttttaggctg 360
 cactggcaat ccaccacaga agggatgagc accatagctt ctgcagtttc tacagctttg 420
 accaaaggcg gctcaagcta gcttgaattg acccatgagg ctcatccgtt ggcaagtaca 480
 catcatctc aaacttcaca ataggaccat ccttgtttga gatattgaca ggtaagaaat 540
 gaagatttgg catctttaga ctgacat 567

<210> 31582
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d04d1

<400> 31582

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 caaaaatcat gcgattaaaa tccaattaaa aaagcataaa gtaaaataag tttttaaacc 120
 aggtatctgg aggaaagcaa ctacatttag tccacttctt caatcttggg gccagcacca 180
 ctttcaccag aaggaggagc agcatactca tcctctggtg caccagcacc acccagtggt 240

ggaccagcac caccttggtg catcttggtg atgattggat tgcagatgct ttccaattcc 300
 ttcatTTTTgt cctcaaactc atctgttctt gcaagctggg tgctgtctaa ccaactggatt 360
 gcttgctcaa ttgcatcctc aatcttcttc ttgtcagccg ggtcaagttt ctcaccaatc 420
 ttgtcatcct tcacggtggt cctcatgttg tatgcatag 459

<210> 31583
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d08d1

<400> 31583

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 atccaggata cacatgcact tttaaaattt aaacttaaaa gaaaaaatta ttaaatttca 120
 taaaatgcta tttaatacta caacatacgt tgataaagct aaccaatgca aatttacctt 180
 agactaaagt gcaaactgcc ccctttctct cctaaaatat aatgaattag aagaggccaa 240
 gaaaaagaag tatcaaaatt tcagcttctc ttgatgccca atcgactct tttcccttgg 300
 atataaaact tgctactacc tgtcagcttt tggcttaagt gagcaacaga ctctcttgtt 360
 gaagaaaaat cagacaaaat tgaagatgaa tgttcatcaa taagaacttt gagctgtttg 420
 agtttcaatg attctccagg cacct 445

<210> 31584
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d09d1

<400> 31584

aagtatacaa atcttttgatt ggccccacac taaaaccaca gtggagcaga gaatatccag 60
 taaatttaca tcacgaagga tttcctccca actaattata cccaagcaat catacaaacc 120
 aatttactta actgacatta cattaagtgc acaacatgta tgcatacact gatgtttctt 180
 gaagccatga atgtcggaac tatcagatat gaagccacag tagcattcgt tttttcaatg 240
 ggaaaagccc aaagatccaa tatctcatct gtctctgtga acacagaaat actagttgtg 300

cttgcattgga agcattgctc aagaccttta ttgtcatcat gatccatttg tttggttctc 360
 ttctccaagt agctgttcaa accgagccac aatgtgtttt ccataagtgt attttttcaa 420
 agcatgagca tgaagtctta tgcgagaaag taatgttgct cgctgatttt cagaacagat 480
 ctcaaaaacc ttctggatca cataatttgc aaattggtct ttcattcattg tcaataaatt 540
 atcattttgt ttgtcat 557

<210> 31585
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077d11d1
 <400> 31585

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 tgatataaac ataggaaatg catatgtgcc ttacaattta aaagggtaac tacgctatac 180
 tatctcactc gactaaaaaa gacatctaaa gcttgaaggt gtatgcaata aaataaagaa 240
 cttcaaggcc ataataattaa ctctcccaa ctttagtagc gtcctataaa ttaaaatgac 300
 agaacgacaa aattcattcg tgtagtctct gccatttta gtcctctagc agcatcccag 360
 gttttgaaca aacggctatg ttggctttca gaagaaatga acatgttctc aaggaacatt 420
 catcacttgt attgactgca acatgtcaga aacgggaacg ac 462

<210> 31586
 <211> 53
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077d12a1
 <400> 31586

agaanttatg gggggtcata gatgccgcat actgtagaac agctatgacg ttt 53

<210> 31587
 <211> 525
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400077e03d1

<400> 31587

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aattcccaca aatagggata tatataaaaa gggaaaaaaa tgaaaagaat tccaagaaaa 120
ataaaaaaaaa aacaaccgag acaccaactc ctaatgacct taagggacct acaattacta 180
gacctaagac cctacccttt ttgacctgca tatgtctacc ctttttttcc tcaattctca 240
ttacaatctt ccctaactg ctaaaataag atcatcatca tctattgctc ctattccccc 300
agtccaaccc tgtacaaaaa ccaatgaacc aaagaaatga aatatcaaaa gaaataacat 360
aagacatgac tctagagggc agcaatgaaa gagaaatttc caacaaagga tcaatcctcc 420
ttcacatcac atgtactcca nggtaaggct gctgttagtg tttggaatga gttcaggtga 480
agcagctgaa ttgattgcaa aaccagattt gtcaaattccc ctgca 525

<210> 31588

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077e04d1

<400> 31588

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taacagtga cttatcatgaa aacaaaaccc aatcatggta acaaaatagg tatacaactg 120
ccaaaggatc gtagctacat ggggctttta atctaaagac aactgaacag gaattgaaaa 180
gcagccaaaa aggcaagcca gcttttatagg ttcttggggg agcattagtt atcaagcttg 240
tgaaataagg gaaaatggac atggccaata tcaatagtct ccacatgttg ggtcccctag 300
gtagaggtgt caaggggggg catgagtttg taaaacctg gttgatctgg tcttccaatt 360
taggcagtgg gcttcaggct tcatagaact cagctgcagg gacctatcaa gttttagtaa 420
gcatggtttc tcctccgaga agaaccattc tgagaag 457

<210> 31589

<211> 514

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e07d1

<400> 31589

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ctaagacaga gatcaacaga ccaacgaaaa cttggacccc gcacaattgt ttcccgtaaa  180
aatgaacca gaaaaacatt atgtttaatt tcataaaaag tcagcagaaa acaacacaaa  240
tgccaaataa aataccaata ttagatgtcc aagtccaggt tgacaaaagg cagcaaacgt  300
ctcgaaagat gcagtattca agctttcaaa tatggaccat atggatggca gcagctacag  360
ttttctttgt aatgatcaca ccgtgcttta atccattcaa aaactaccaa taccggggga  420
gcaagattca aaagtaaag ttccaaatga tgaaatctta ccaattaaag ttgagaagta  480
ctatgcccaa ttcttaataa tcatactccc ggga                               514
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<210> 31590
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e08d1

<400> 31590

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ggattttggg ttggtacaca gattgcactc ttgattccaa caacacgatg tacttatcaa  120
gcatagagac cacagcttca aactcagtta cctgcttctc aatgctatca atctgctcga  180
catactcggt aaagctacca ctcttgcatt tgaactgctc cacaaaaacc ctcaaccctg  240
aagccaagtc accaaaccct ttgtactctt ctgctactct tacattcatc ttctccaaga  300
gctctagatg attatttgct ccctgaagct ctgatttgat catgggggaa aactactga  360
atagaccatc aagcgattca gcaagttcat gttgcttccg attgtggggg tcacttttct  420
tatattatgc ataggtgagc atatattcga ccattcacia gagag                               465
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<210> 31591
 <211> 323

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e09d1

<400> 31591

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 catagccaaa tcaactcatt aagatctcaa gcgagctgct tctaccactt gtttattgcc 180
 tagatcttta ttccaagcac aggatgaacc acatttttca ctgttttagc caattgaaca 240
 gctgctccaa cataaagatc aagcgtgaac tgaaacagat tatgatgggc tctgtctggg 300
 atatccaagc cttcaatgaa atc 323

<210> 31592
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e10d1

<400> 31592

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 ggggaaacc ccccccccc ccccccccc caaagccccg gtcccccccc ccaaggtttt 180
 ccccccccc ccaaaaaaa gcccccccc cccccctccc ctttttttaa aaaaaccccc 240
 taaaaaaacg gggggggggg gggggcccc cctcccccg gcccacaaagg ggggggggg 300
 cctccccaaa aaaagggggg ccccccccc gataaaaacc ccccccccc cctcttttaa 360
 aagggggggc ccccatttg gggccccct ttttttggg ccccaaaaag gccaccctt 420
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<210> 31593
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e11d1

<400> 31593

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 gataagaatt acccagctaa agagaacatg ttttctatac aagctccttg tttaaagaat 120
 caaagaatga tcttttggtg ggggtattatt ttgaatctat tatttgactg aggatgcaaa 180
 tgtacactgg cccatagaaa acgtttttta ggaatcatga tacacctgca aggggagggg 240
 ggcttgaaat catatgtagt aaaaatttgg gctcagaact ggtatgggta ccctgaaagg 300
 cacctgaaat ggttccaaag ggatcaaaat tgcacatcct ggtgaaaata gcactcactt 360
 ccttgттаг gtgcctagaa gtcttcatgt cacaaacttc ggtggtaatt ttgaaaacag 420
 gattgagcat tggagttatt gcacatgcac tcaggaatag gaaacttgg 469

<210> 31594

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077f02d1

<400> 31594

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 accctgccaa taaaataaac cctcatccct aaactccagc accagcagca gcttgctcac 120
 ttcaatacac aactcctaga atttctcatg tcaccacgtg gtaagcacgc tgatgtggag 180
 ccaagtgttg tgctcacacg taggtatacc ctccataata caaccaaaga cttaaccatc 240
 atataataat aatatattaa taataaagta aactaaagaa ataaataaaa aaaaaagctt 300
 ttcaacatga catgcaaaat ggtagaccta atgatcccca caactaggac cattttttaa 360
 cttgtttttc tcaactcacac tgtccataag tctaagcttc agttttctca acaggaacct 420
 ctactggggc ttccactgtc tcagctgggt agttctctct ctctgtggat gctgctgggtg 480
 ctgattctgt ttc 493

<210> 31595

<211> 587

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077f03d1

<400> 31595
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atacacacat gataacgctc tgagtgttc gccaaactggg gtcacaagac cgtggatgga 120
gttacaagaa agtagagtta caacattaag aaaaggtcta tgagtcaagc tgagcataacc 180
agatgccttg aatcttaaca tccttaggag ctttagcccc caaatcagta tcagaaggct 240
gaacactctc gaacacccca ataacctcac cagtctcagg cttggacttg gtgacactca 300
aggtgatttt ccctttggaa gatgaagcac ttttattgtt ctccttggca agttcctctt 360
catctcctct tccaccagca ggcaaagcaa cagcattgtc ataaccagtt gaggcacccc 420
ttcccttggg gtccaagaaa gaggaaccac ggtaagacgg cactaggaac tccccactga 480
agctgtctgg tttcccagat gccaccaact gcttaatggt gaagaagaat ggcacactct 540
tctcccctgg aagctgttca gtgacagcag catagtcaat tccgctt 587

<210> 31596
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077f04d1

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tctgaaagta tgtgcattaa gttaaaatgg gcatacaaaa atatgggagt tgtcattggt 180
tattcttcat tgaagcattg aagcacaaag gctgcaacaa attcagctat ttgcagccaa 240
tccaaccacc atttcgttgg atcaatttgc ttcaagacag cagcatttgc atcaaataat 300
caatcagaca tgtaatcttc tgctccacta gactgataat tgtcctggtg tgggtgcacct 360
ctatgttggg cttcgagacc atcatccatt tctaagccaa ctctcttaaa ggaatttccc 420
tttgaacttg tatatacccc agaatccttc cgctcaatcg cagcaacact agaccttcgc 480
cttacagtca ctctggcagg tactggacat tgctcaactt catcaccga tc 532

<210> 31597
<211> 483

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077f07d1

<400> 31597

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accttgaaaa aagcagatca ttatagcagc cacacaaaga cactacattt ccatagattg  120
taatccagtt gaagcctttg atttcttctt ctttttggat ccatttttgt tcaactttttt  180
cttgggttgt tccttacta caagtgtgtt gctctgtata tattgatgaa tggcagacag  240
gggatctgct cgaaagttag ggtcgttgag aacagcagaa attcgatctc tttcagtcaa  300
tactaatatc tgcttgatt tacacttaag tttgccgtca ttctcacaaa ctggtttctt  360
tgatgacttc acctcgggaa gggactctaa aagtgaagat agattatatg ccttcaattt  420
gttctgccgc ctttggtgag tgctcttttt ctttttctta gaaatagact tttgggtact  480
caa                                                                 483
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<210> 31598
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077f12d1

<400> 31598

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gggccccctt gggccttttg caaaggccct gaaaccogct taaagggggg ctggtgttgc  120
ccccccaac cccaaacca ttaaaacaac cgggaccatt ttccgcccc tttttacca  180
aacaaggggc aagcccctgg aaaccggttc ccgaaaatgg ccccttttaa ttcccccccc  240
aacttctttt tttttttaat cgggaaaagg tttttgcccc catgccaaaga gggcccaaaa  300
ggggggccaa atatgttttt ttgccccaac aaaaaggggg aaatttacc cctcaaacca  360
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ggcccg                                                                 426
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<210> 31599
 <211> 527

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g02d1

<400> 31599

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caaaagtatc gaagccaacc atataaatcc caacttatag ggaatttcta aaaaacacat 120
gggcacactt tatgattaca aatgagagat gccttattcc gaagaagtta taaataacat 180
ctcacctgtg atttcagact aatttagata atgcacatgt ataaaaaaaa taatgaaacc 240
tctcaaaaca tatgttgtat ctacaaacac caccacaaa taacattttt ttttgcagtg 300
gcagtttctca ccaacagatc cagggatgtg tcatgtgtct ttgacaaaaa acttatgcat 360
gttgcagatc ttatcagtgt aaaacgtgaa accatggcat gcccttccat tttttgttac 420
ctttagtcac aattcaatgc acagatttcc aacaccacat cacttttggc caagaatggg 480
ttgatttctca cccaaagtag ggttaaagat tgaagacagg agaatag 527
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<210> 31600
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g03d1

<400> 31600

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aagcaaaccg agtttaagac ataaagttga agaaaagatg tacataatca gctagattca 120
agtctctctt atgcaggcat acatctacaa ggggggggga tttcacttct ttcacttctc 180
tgagcccttt caaggggcac atcctcgaag tgtgttcaac atcaaaagca tgagcttctt 240
aatgggcagg ataagggaaa gtggtgaatg cacggtgcgc atggacagca caggcacaat 300
gcactgatgt caagttgagg cagccactca tgatgagtga gtgcctccct gagcatgtgt 360
ggagagaagg gaatgagtca caaacagctt gaacagcaga tggggtgagt gcagtgcatt 420
ggctaattgtt caaagtcctt aaaccatctt tatcat 456
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<210> 31601
 <211> 508

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g04d1

<400> 31601

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aactccacga cagcgcttat tcacggggca tacaaaatac aaaataacaa cagctaataca 120
tgaagaaaaa acatacaaac ataaccacag taataatatg aaaccagtga acaggatttg 180
aatcaacgca tcagaggaga ggtttctatc tgaccagagg attgttgatg gaaaaataaa 240
aaatgaaacc caacacaaag gcaaagtccc gcctgcacaa gggactaata tgagctatcc 300
tatgatattc gatcacaatc tgagacgatg tggtttgaga gtcttgtaag tcaactggctc 360
agaaggtgga ctagtgggct tgctctgcct cccccagtac gatttgcacg gaacgtagta 420
aaatgaattc gggttcggac atgttttctt tgttttgtaa aactggtagc attctttggg 480
agacttttgg ttaggaagcc ccggaatg 508
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<210> 31602
 <211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077g07a1

<400> 31602

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tttcggacca gctgtgatct tcaacaacga caaagcctgt gacgaccaat ggatttactg 180
ggttggaacc tttgttgagg ctgcggtggc tgcaatctac catcaatata ttcttagagg 240
ttctgcaatc aaagctcttg gatccttcag gagcaacgct taattaaaaa aaaaaaaaaat 300
caagtttctc cactacctaa attatgatga tttggtcttg tgtcacccaa aacaagaaca 360
gtgtttcagt tcaagtctgt ctacaggctc ctctcttttg gcttttctgc ttaccctggg 420
gtttggggga aaagccaaat accgtgggct cttgaatttg tagataagaa tgcttttatg 480
tcaagggtgt atntgtatcc cttttgtttt taatttcttt tttcttccaa gtatttatca 540
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tcat

544

<210> 31603
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g09d1

<400> 31603

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 ggccaaatga tacacggatt aagacacaat ataatgccat aacattttga tagctatattt 180
 aaaagtggga cccccacact ggttttgagc atgctttcct tacacatttg aataaacatc 240
 ctatgggttt cttgcctcta caacaattca ataatccttg ctcaggcatc atcacaaaca 300
 atccctaaaa gatggaaagc ctctgtgtc gcaatgatga accagatgat ttggtatctt 360
 cagggactac aaaagtaggg ctattggaac tccctgaagt ctctgagctc ctattttctc 420
 cttggccttt ccccaaatc cataacttgt caaaaattct ccttga 466

<210> 31604
 <211> 491
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077h01d1

<400> 31604

aacactcaaa atctaaaatc tccattgaac gaaaaactga atataaagta aagatcaggc 60
 cgataaaacg atctataaga gatggaaaat tatcattgat tccaactaca gacacgtgtt 120
 tctagaaaac taaacaaaaa ataaagcaga aaacattata cttggggaag atttgagctg 180
 gttggcgctc caaaaccacc agatccacga ccaaagccgg gccttcgcc aggaccccca 240
 aaagagggcc tgtagtcagc aggagctcct cccttgtctc ctccaaagt accaccaggt 300
 cctgctgggg gacctccacg gtatccatca cgatcaccac caaacctacg ctccccttca 360
 aagcgtggtg gacctctagg gcgatcaccg gatgggcctc caaagggcct gccaggtggc 420
 ttggcttgct tcttcaaagt agcagggaca atttccgaag gaaagttaag gtaagttctg 480

agaaactcga t

491

<210> 31605
<211> 560
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h02d1

<400> 31605

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gcaacatcaa acgaatatca ttatatacaa gagatgtcat ccataatcaa caatacatgt 180
gagtgtttgg tttgccgttt gcacagctcc aaactccgtt cacgtgttcc atagcagcaa 240
acggaacagt tatatacagc tggattggaa aaaaaagggg ggttacgtcg aaccaacat 300
ttttccaaac acgcagaaag gcttcaacag aatgttattc atgaggcatc aactgaaaca 360
gccaaagcat tcagttgaac gtgttggtta ccctcactgt ctgggtgaac aatgacagta 420
gcatgagcct cagaataaga ttgattggct ccttcttggt aaactgatat ggaacacact 480
ttatctgctg tgctgctttg gtcactctgg actttggaaa taatttccca ttcctcttta 540
agggatgcta cttctacacc 560

<210> 31606
<211> 578
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h05d1

<400> 31606

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accacaactc tttgtagcct ccagatttct acataaaaaa tgtgactttt gtggcgccag 180
catgaaacca agcatcaacc taatacagtt tacttaacat gattatgtaa aatagagatt 240
tatttacact tagttcttat ttttaagcttc acattctgga aaatgtgtag tccatcgcat 300
ccacaaggaa gtctgcatct tcttttggtga aacatagggg tgggtgtaatt ctgaatacat 360

ttccataata gccacccttt gcaatcagca ctccctaattc tttcatttgg tccatcacat 420
gcagggtttc actttgtgct ggtgttttaa gtttgccatc actgacaagt tcaactccaa 480
gcatcatgcc tcttctctta acatcaccaa ttaattcata tttgtccttg agtgcattga 540
gtctcttttt caaataagaa cccactacaa aagcattt 578

<210> 31607
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h06d1

<400> 31607

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gcgaagtgaac attaacatta caacccttta tttcttggaa aaaattacag acaaactaag 180
aagggttcagt tccactacat ccattagtag caggaattgc cactaattga cattttaagg 240
ttggattcaa aaaccgtcaa atataaatgt aggaagaaga aaggacaagg actactacat 300
cactgttata cagcccaaac ccttgtgctt ccccttacct ctgttttttt ggtcatttcc 360
ttttaatcaa cacttcttca tttaggttct tgtggccata atgtgatgat cactcattg 420
gccatcatca ccttaacgaa ctctcgtag tttatttggc catctccatc aacatcagcc 480
tcacgaatca tctcatcgac ctcttcacg gtgagggttc tcccgagggt tggtcacac 540
atga 544

<210> 31608
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h07d1

<400> 31608

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agcacaagtt cataatatac aatgttcact attgttttaa tccgtgttct tcctgttgga 180

tttcataacc tattacacaa ctgattgata gcatgggcta aacaaactgc agtattttaa 240
 tatggcacca ttttctttcc gtgagtaatg tagctgtac tggttttatc aacaagaaca 300
 acattaacct cacatagctc catctttgct tgaactctgc tccatgtcag tctgatcttg 360
 ccatggccac ttcagattag aagatgagga gcactgctgt ggaactgaaa atgaatatga 420
 gcttgactg gcacactgct tcttacatga tgaaaaatca gctgtggagc aaatgtcttg 480
 gtcaatgctt gacatgccag aatct 505

<210> 31609
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h08d1
 <400> 31609

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 tagatccaac ccgagaagca attgaggaac taagaatgga caagcgtagc tacaacaaat 180
 aaggttgaga gaatttgctc cttttaagaa gagaacaaaa aaaatgtgga ttgttcatct 240
 agtcttgaag ccaaaagctt caatgccact caatcctaga agagatgtgg aaatagaggg 300
 ttgaaaccac caaaaacaac cttttctcca tttttttttt gtttttcctt agaaggaagt 360
 ttagagatga ttttactcaa agcagaagag aagctataaa cacggccaga gtggacaaga 420
 agaagcagac agtgacttta ggctgtgaat ttccctgtgg agatttggtt ccggcattcg 480
 ggctggaagc tggggctatt ttagcaaca 509

<210> 31610
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h09d1
 <400> 31610

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 gaaaaaaaaat ctcagggtt cccaatata gaaaaataat acatcctcat tctcaaaacc 120

ctgtggattc acctgttaac attgttaggt ttccccacac atgaccagag gcttcctcca 180
 aaaatttatt gtcttcagca acaaacctat ggaagtgtc aggtctgact caaaacctta 240
 atcgacttg atatttctgt agatcctcct cacgaacaaa tttgaaccaa gaaaaccac 300
 agctccacat agaattccta gtccaagaga aaacatcgaa gtgtatccaa aataaaagct 360
 ggtgtggaag aagcctgaca tcttcgtctt cacatagaag tagtatattg agtaciaaata 420
 aacataaaca gctgttgagg cagctgaaaa gaaagaagtt cattgccagt ggttgttctc 480
 agcattt 487

<210> 31611
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h10d1
 <400> 31611

ggtaataata ttttatgatt atgtcaacaa cttgatcaca tatgggaaat gttctattac 60
 aacagagaag gaaaaaata gatatatgt tctatctaca atctctcttg aatttgaata 120
 tacaagattg aaaaagataa taaacagaag caatcaacaa atcgaccca caagcaggtc 180
 tgtaaacaca ttctctgcag gggtttgaat ttcagtcacg ctcatatgca caaattggaa 240
 gcaatcaata aataaataag ttggcttttt atggactgtt accaattgaa aatttcaagt 300
 tatcaaaaag gcttggatcc ttaaaaatgg 330

<210> 31612
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h11d1
 <400> 31612

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 gaaatacata aaagacaagg ccagtatcaa attatggaca aaacaagaaa aactaaggga 120
 tgataaaggt cattataaag aattctatga agagtatgcc aatgcaatca cataggctat 180
 ttccttggtg aagtgttagc aaaaaactcc cagatagcaa gtaaataagac aaactctgaa 240

aattgcaaat cctttttaag tctcctttct ccggcgtaag atgaaactac cctggcaggc 300
 aaattctgct ccagggtga atattcgta agagattggg caacaatctt acattttatg 360
 atatcatatg caccactcca tcagttatca tgactctat 399

<210> 31613
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h12d1
 <400> 31613

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 accaaaatcc acaagataga gtacattgtt tttaacacaa cagaattcta tggactacca 120
 ttaagcagca ataatttcta gatgaaagca acccaggtag atgttgacgc aacaaccttg 180
 gcaaaactag atgacaaagt tgaggggaga tattattaaa gattgaacca atttgtgcgg 240
 gcttctactc ccttgtctac ctgttactat aagccgcata ctaatgtcta agagctcaac 300
 tttgactatt attattaact gggtcgcttt gtttctccat attattttga gcatgaaatg 360
 aaaatgacag tatgttcctg tcagatttgg agactggcag atatggagct tgcaaggctg 420
 agaatctcaa atggtggcct attcatcacg tctttcactg ttaaggggca tgaatctgtg 480
 atccagaaat aagtaaagtc agactctgga tgccccccat atcatgtcca aagcgtgccc 540
 atgatttatt tgggaaaata ccatgagtca cgt 573

<210> 31614
 <211> 560
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078a01d1
 <400> 31614

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 gggggggaaa cacaatttaa tctgcaggaa acgccccaaa gaagtgagga aattggaaat 120
 ttttgtctcc tcagctctat tagtccagga atcaggatca aagaagcaat acctactgtc 180
 aacaaacatg tgaattcata aatacattac tgaataatgt tcaacattaa ttaggctggt 240

tgaatcataa gccttgtatg gatccacca aaacatcgag gatttccatg tatcaataac 300
 agngaactctg ttttttcttt ccacttttgg ctgaatatc tccagcatct caattttggt 360
 agtacaattg ggatctaatt aatttcctac cttccaagca gaaatgtaac taagaagtga 420
 aaataacaat aaagagtaaa ggagaagtat attttattgg cagcaggttt aacctgaact 480
 gaatacatat catatattaa gaaggatgaa cttttcagaa gagagtcctt tccaagctga 540
 tttcatggaa gcagtggctg 560

<210> 31615
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a02d1
 <400> 31615

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 cacataggta ggttgaaatt ctagctctag caatctagct agagaaggta gtacttgcac 180
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 catggactaa ttaagcaaca atggttggct gataggcagt gtccacagat aaattgggta 300
 cccataaaat ggccttgctt ccaaggaaat ggcaaacagg gttagttcca ggatcaactc 360
 ccataagttg atgaagcatt tgatgattca ttccagaagt atttgagtgg caaatagcaa 420
 gtgcctgagt tttggttcca tcaccagcca ccaatggaac catgaaagct gttgttttac 480
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<210> 31616
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a03d1
 <400> 31616

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 aaaacattta ttcttttagct agctagcctc tggatatcata tcatattatc tatatttgg 120

tcacgtacga aacattttgt actcccaaac acaaaaaaac aaagatcatt attccttgga 180
 ttgatgaggg tgatgatcgc tccaacaata agatggaaga acgcgcggtt gcaacaactt 240
 gcatgcatgg gcggcacaag agagagagat tcgatgaatg aagtaagtaa gtaataatgc 300
 gatcgatcac ataattgtgc aagcagaggt gttttcttca cagaaatatt catcgcaacg 360
 gctcacgtaa caaggcctgc tcccaccgta actatcataa acaggccttc cataataagc 420
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<210> 31617
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a05d1
 <400> 31617

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 ttcccaaaaa atttttccaa aagggccggg gggaaccccc ctccgcccg ggccccctga 120
 aaaaaacccc ccctttttct ttgggggggg gaccccccca aaacctggg ccttgggagg 180
 ggggaatttc ccaaaggggg ggggcctttt gccccctta acccctttgc caaaaaagg 240
 ttttccccct tggaaggggg gatggctttt tcaaaaaaa atttttacc gggggggggg 300
 aatatttttt tgccaaacaa aaaagggaac acccccctcc cccccccca agggggcccc 360
 catggtgtta caaaggggg gacaaaattt ttttttccca gccccccctt ttggccaagg 420
 ggccaaaatt ctacttgggg ttttacgggg gccataacag gaattttttt cc 472

<210> 31618
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078b01d1
 <400> 31618

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 caaggaacaa agccaaatgc cttaatatct cagtgatatg tattgtacat taagtaagat 120

tggagaaaaa catgaagatg aatgatttag agagttggag ctctctcagc agatccagaa 180
atgacagtga gcaagttggt gccaaaaggg tctactgagat gttttgcaag gttctcaaca 240
ggaccttctc cagtgcata agcttggaag tagaaaccaa gcatggcaaa catagcaagt 300
cttccatttt taatttcctt cacctttagc agtgcagctt ggtctggatc atttgcaagc 360
cccaatgggt caaatggacc acctggatga agtttgtctt cgaaattcag gccattaata 420
attctgtagt actctgcacc tcccacaaga acaatctcag caatgacagc cacaataaga 480
ttgatgggga tgg 493

<210> 31619
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400078b02d1
<400> 31619

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caacttccca atcatcgta cgtccagcaa aatacattca aaagctatct aaaatctggg 180
gaaccacat tggcattaaa aacctgacc atacaatttt ttagagaaat attatgggca 240
ccatgcctct tcaacaatcc cctaaacgtt gcttaggcat cagcaaacc aagctcgga 300
agcttttggg gagcctcagc gtaatcagca aagaaggcat ctctgctcgc tgcattatta 360
tcaacgagag ggcggaatac agggtcagac aaaagagcct tgtcagaagg tagctgaagg 420
agaaccttct tctaccactc aacac 445

<210> 31620
<211> 539
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400078b04d1
<400> 31620

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gtagacagac atttcccaca tgagacaaga ttcagcagtg cacgtggctt tcggcttcga 180
 attttcaagc gtgacagctt tcgccgggtt actcttgatg ctttccagca tatcaagctc 240
 cttgatcttg gttccagtct cagattctct tgttcaagct tctcagcaat agaaaccgct 300
 ttacgttttg accaccact tctctgacct tctgcctggt ggatcacatg agcaagagat 360
 actttgcttc ttacaagact tcgactttga ccttgctcca taagctttct ttcgtctaaa 420
 tgcgacttaa caattggcat tttttgggaa gctgatgatt gtcctatact tgtaccttct 480
 aaacttttat aagatgttcc atgagcatca acctgctgct cgctattaat gtgctccac 539

<210> 31621
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078c02d1
 <400> 31621

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 aataaacct catccctaaa ctccagcacc agcagcagct tgctcacttc aatacacaac 120
 tcctagaatt tctcatgtca ccacgtggta agcacgctga tgtggagcca agtggtgtgc 180
 tcacacgtag gtataccctc cataatacaa ccaaagactt aaccatcata taataataat 240
 atattaataa taaagtaaac taaagaaata aataaaaaaa aaagcttttc aacatgacat 300
 gcaaaatggt agacctaatg atccccacaa ctaggacat ttttaaactt gtttttctca 360
 ctcacactgt ccataagtct aagcttcagt tttctcaaca ggaacctcta ctggggcttc 420
 cactgtctca gctggtttgt tctcttctc tgtggttgct gctggtgctg attctgtttc 480
 tg 482

<210> 31622
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078c03d1
 <400> 31622

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aacattaagc cgaataacaa actgggcttg gctccaaaaa aaaaaaaaaa aaaaaccct 120
 tgggccttct aaaggggggt ttttaaaggg aaggttagaa acttttttta ctatacaagc 180
 tatatgccgg ggtgggaaaa aatctcattt tcatttcttg gggaaacca aaccggccct 240
 gggttgccac aagggggtaa aaaacaaatc cccctttttg aagattagaa atagctccag 300
 cgaaactttt ttggccgcc tttttttcga cccc 334

<210> 31623
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078c04d1

<400> 31623
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 aagcactgct actcctatta tattattatt acaggaaatt gggagattta aaagtaatta 180
 ggatttaagc acaggcacia gaagtatcaa caacaaggga atcttcgccc tcgttcctga 240
 agaagaagta accaacagcg agaccacga cgatggccac aaacaccct ccgttgaagg 300
 acatcacga caacatcaac aagtaccga ccgcgagct cagcccgaag agaaacgctc 360
 cggcgacctt tacgcccacc ttgacgcggt ttccggcgag cttccgtcgc ataagagggg 420
 cctcgatctc cgccgggaag ggcttttcgg agccgatgag cttgaggcgg atgcggcgat 480
 tctcgaggaa ctgg 494

<210> 31624
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078c05d1

<400> 31624
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 cttgactaag ataatgacaa aagaagcaca gtgcatacaa aaaccaaggg gtgaaatatt 180

gatcatgaaa ctaagcagta tgagaagggtt ggtgctcttc ctggactact tcatgttgct 240
 cttgctcttg ctgtgggtttt tctccttgcc aggtccaaac aatgtcctta agcgctggtc 300
 ttatatcctg tttaaaaagc ttctgggtact ccatgggtgac accattggac tttctaagtt 360
 ccaccatag gaagtgtggg gtaatctcaa aaatctcagc atcaacaccc agagttcctt 420
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<210> 31625
 <211> 360
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078c06d1

<400> 31625

acaatataaa gtttagaaat gatgcacccc cccgggggca cgggggggggt tactgccccca 60
 atccccacca taacctacct cgatcttaac acaacagaat tttctggact accattaagc 120
 agcactaatt tctagatgaa agccaccag ggagatgttg ccgccacaac cttggccaaa 180
 ctagatgacc aagttggggg gcgattgttt taatgattga tccattcgt gcgggcgtct 240
 actcccttg ctaccggta ctataagccc cataactaatg tctaagagct caactttgac 300
 tattattatt aactggggcg ccttggtctt cctttttttt tgagcctgga atgaaaatga 360

<210> 31626
 <211> 571
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400078d01d1

<400> 31626

gaaccataaa gatggttttt ttttactgta aaataaaact gtaaataagca atgaaagaat 60
 gtgaatcatc ataactacat acaactcatg gcacagctt taaaatacag attttatgag 120
 catgaacgca acctctacgc tttgacgca tacagtactt tgtgcaactc aacctcaaag 180
 ttgtcttgac atcgaaacct ctaattcttc gcacattggg cctgaaaagc tttcaacaga 240
 gaatagcagt gcttggtgct accggttgct gcagcatacc tctcttcag atcattacga 300

attctctctt cttcttgaag tectacatga accctttcta gcttctgttg acttcccttg 360
 acaattcctt ccatggaatg aacaagtttt atacgtccat cagtgtact aaaggcctct 420
 tgaaactggg aaatgatcga attcaataaa gatgtttcct ttagcatcaa ttcttttatt 480
 tccaagagag cattgtaggt agcatagtat ttacgagttt gtcgatgttt tccctgggat 540
 tgtgcataca gttctgagag cgggcgttcg t 571

<210> 31627
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078d03d1

<400> 31627
 cccacannng aaaaaaaggg attgggggaa aatttgaagg ccagaaccgg ccacacacca 60
 ccaaaaaaag gaacaagggg agagggaac aaacaaaca aaacaaaca acaaaccgca 120
 aaaaaaagga accaaagaca ccaaaggcc cccaaagaa aaagaagggc aagaaaaacc 180
 aaaaaaagag aacccccccc cccccacgc gagaaaaaa ggcacgcccc acacggcccg 240
 ggcgagggga ggaaaaaaa gcacaaaagg gccacaaaa aaaaaacccc cggggaacag 300
 ggcaaacc 308

<210> 31628
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078d04d1

<400> 31628
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 aaggacaatt acaaatgtag caacaagccg ttacagcatt caaagttctt gtaaacctat 120
 aaaataaatg ataaacaaca tatattacac agaacttctt atctgaaaca agccaaaaca 180
 gatagctatt tttctttttc ctctcctttt gaaataacac ctgggttttc tatgataaaa 240
 aagaaatcca attgcaatca attgcaataa caagcagctc atactaatat tactaatgct 300
 ctctaaatat cataactgag aactaaaaag gtgggtgggat gctgatatgc aagattatct 360

atcacctcac atatacatcc attggacttt caccatatga ggctgggttaa taagataaac 420
 tatagactcc ttttttgatc taagattgta tgaagtatcc acaaaataag aatggccatg 480
 taccaacctc ttaggtcaag catttatttc tgaattgcat tgatg 525

<210> 31629
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078d05d1

<400> 31629

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 gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaacactc caagttgaag 120
 acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
 tcccaattga acttggggagg acctgaatta ttggtcactg aggaggggtgg ggggtggtgat 240
 gtggccttga cagggattaa tgggtgggaca gaatcaaaca actcccaatt tgttggaact 300
 acaactcctg aggtggaatt ccttgagggt tgttcttggt gctcttgata tagtgctaga 360
 gaattctcac ttgagttcct tgggtgttct tgttgctgct cctgaattgg tgctaaggct 420
 aatctatgac gtccatatga atgcttttgt tgggtgctctt gaattggccc cttcctttga 480
 ccaattgaat gcttctgatg gggcctttact gngctnggc ctccatngct actaagcata 540
 gaattcttaa ctttcagcac atcaag 566

<210> 31630
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078d06d1

<400> 31630

atgattcttg gattttataa agaccatcat agacatagat tttattattt ggattcacac 60
 catctctcat gccccgatg actcttactt cattgtgttg tcgcgaactc ctatccaaag 120
 caagattacc cctttgaagc ttctggtcag ttgtgtgctt atctttattc atgaagaagt 180

tcccaccctg accagtataa attataacat cactatcctc agcatcatcg tcatattctc 240
 ctgacgaaac aatgcacaca gccagagttt cctcctcaaa ctcacccctg atatgcaagg 300
 catcaattcc acccatggag ggagcatgca agcccacaat acacaattcc attcggaat 360
 aaaaaatgtc accaatctca atcccaggaa ctgctcctat tctcttctc atgtttggcc 420
 gaattcctct ggtcatcaaa gtattgcaag ctttcaaate tgcacgcttg atcg 474

<210> 31631
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078e01d1

<400> 31631

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 tttacaagaa tcatgaatat caatgtctat tgtatcggca atcaaacatt aattgcaagc 120
 accaaagaaa aaggcaagat gatgggaaga aacttaaacc ttcatcaatt caatcatcta 180
 atttgataga caaactttct attttttctt tctcactggg ggtgggtcgt acgaatgaag 240
 aaggaccaga attagaagaa agagggtaat tgtgtgaact cactcaagag tcatgacaag 300
 ttcagaactt gttcttcagt ttacgccgtg cagtacttcc ctcttgtgaa agttcctgtg 360
 gcagccgcaa gccgcacacg taagcgccgc atttgttcct tcacaggcac tggccatgaa 420
 ttccctgcag ccatccacag cataacctcc cgtattcgcc gcatgattct tctggcactc 480
 cccgtatcga atatt 495

<210> 31632
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078e04d1

<400> 31632

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 ttttagaaa ctttataact ataaactata aaagctttgc ccagatgaaa ttacactgca 120
 ggcaaatttt tcattcacct ttagcttagt tatcttcatt gtcgccccaa ttattctttg 180

tcacatcttt gtattagccc tggatggcaa caccaagggg agcagcatcc ataggtatta 240
 tcttctcaat ttctacaccc ttgttgttct ggttttcata ggctgaaatg tgcactccaa 300
 gtgctgctct accagagggg tcaaggttgt tagaccaagc agcatccac tcaacagctt 360
 tggctgtgct acatgcaaca cttgctcctc caggaacagt gagcctagct gagttctgag 420
 ggaagaacct ctcaaagatc attctgtagt aatatgcttc cttgggtttt ggggtg 476

<210> 31633
 <211> 422
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078e05d1

<400> 31633

ggaaacaacc caatatagag aaaatttttc tttggggttt tataatataa agcagaacca 60
 aatgacttgg aagattctac tttcttatac cattcacttg gcaagtctgt tgcggatgag 120
 ttttgctgcg gcaaccatgt ttggggagggc tggettccacc tcagggtact tacgggtctt 180
 gagccacag tcagggttca ccacaagat gtttttttcg agcactgcc a gcattttgtt 240
 gattctgtca gcaatttctt cagttggggg tattcttggg gaggggatgt tatagacacc 300
 agggccaatt ccagcaccat actttacacc ttcggggaag actgacagaa gcttcttgtc 360
 ggagcgagag ttctcaatgg tgataacatc gggtccatg tctatgatgg agtggatgat 420
 gt 422

<210> 31634
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078f01d1

<400> 31634

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 gacctaaacc caaacagacc tacccaagaa tcataggtga tgcttgtcca ataacacatg 120
 catttcaaac tacgtggaca gatagagaga tcacgaagca gcttgagtt agcgatgtag 180
 ttgccacccg tottaactcg tttccatcag caatcaatcc accactcaag aattagctga 240

catagtcaac tggcaataac ttggttttcc atctaggagc agcaaaaact aaaaaccaa 300
 attatgatca atccttcttg acgcagtgtg catctgtgcc atgttggttg caatcatgat 360
 aaccacact acgtaggaag tctcgaatct cttttgcact gctattactg gcccgttaaca 420
 agcgctcatc ttcttcgtat atgagataag gggcttggct tcctttcctt gagagcaact 480
 ttgatgctcc ttttaagaacg tgatattccc agccctgaac atctatttta agcagaagca 540
 cagctctga tttcggaatc ac 562

<210> 31635
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078f02d1
 <400> 31635

cccaatcgct cttgcagttt taagatttcc ttaatcctta tacaacactc tgaaatgaca 60
 cttattctaa aaggtagtat taatctagta catcattcag catagactaa cacaaccac 120
 gcaaagctta cattaataaa atgggtatat tataacagcc aatatcacca ctccaagaaa 180
 cgtggagaaa aaaggtcata aagcttgatg gtcaaacaca tgacctcccc ccttagcaaa 240
 tcctacaata tctatacatc tgaatcacac catgaacacc aatggcatta ctcagcaaca 300
 tcaacaaaag ccttatccaa cttggtgacc aatggcatta ctcagggaaa aaaaaaatgg 360
 atgcaagtta tctaaagaat gcctaaagca tcagcagaca ctgccaaatg ggccaaccac 420
 aggataagtc accttggcag gaacaggaag aaacatg 457

<210> 31636
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078g04d1
 <400> 31636

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 atcatccttt atcaggttgc ctacccttac actttggaac cttttaaatc atcaatcaca 120
 gcttggtttt tgttgatgca acaatcgaac ccatactttg atgggttgag atctcaaacc 180